SANYO

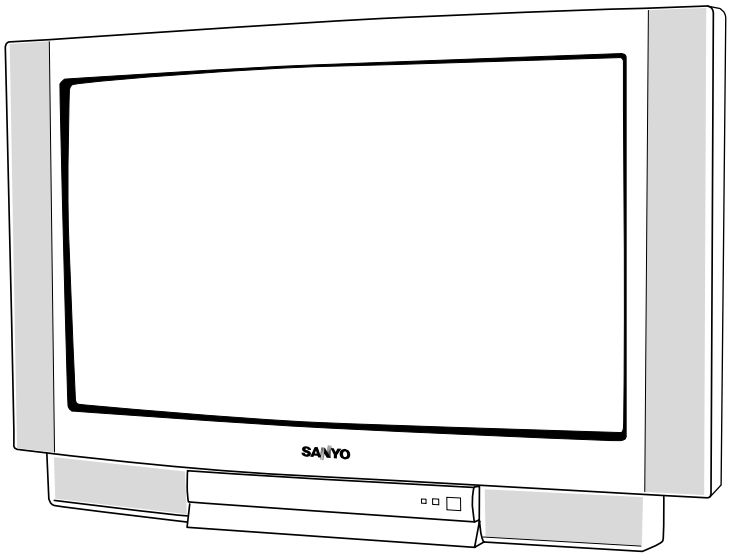
Colour Television Service Manual

Model CE28WN5-B
CE32WN5-B

Service Ref. No. CE28WN5-B-00
CE32WN5-B-00

PRODUCT CODE: 111356800 (CE28WN5-B)
111356900 (CE32WN5-B)
ORIGINAL VERSION: Chassis No. EB6-A

CE28WN5-B
CE32WN5-B



Give complete "SERVICE REF. NO." for parts order or servicing, it is shown on the rating sheet on the cabinet back of the TV set.

Note
This TV receiver will not work properly in foreign countries where the television transmission system and power source differ from the design specifications. Refer to the specifications for the design specifications

Contents

Safety precautions/Specifications 2
Block diagrams . . . . . .3~5
Cabinet Disassembly 6
Adjustment and Repair Procedures . . . . . .7~11
CPU Functions . . . . . .12~13
Component Locations . . . . . .14~15
IC Block Diagrams . . . . . .16~20
Pin description of semiconductors 21
Part Description and reading of schematic diagram 22
Cabinet Parts List/TV Stand parts list . . . . . .23~24
Electric Parts List . . . . . .25~34

Part No. SKSM0491 C3HAL/C3YAV MAY 2001

SAFETY PRECAUTION

1: An isolation transformer should be connected in the power line between the receiver and the AC line when a service is performed on the primary of the converter transformer of the set.

2: Comply with all caution and safety-related notes provided on the cabinet back, inside the cabinet, on the chassis or the picture tube.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, isolation resistor-capacitor networks etc. Before returning any television to the customer, the service technician must be sure that it is completely safe to operate without danger of electrical shock.

X-RADIATION PRECAUTION

The primary source of X-RADIATION in the television receiver is the picture tube. The picture tube is specially constructed to limit X-RADIATION emissions. For continued X-RADIATION protection, the replacement tube must be the same type as the original including suffix letter. Excessive high voltage may produce potentially hazardous X-RADIATION. To avoid such hazards, the high voltage must be maintained within specified limit. Refer to this service manual, high voltage adjustment for specific high voltage limit. If high voltage exceeds specified limits, take necessary corrective action. Carefully follow the instructions for +B1 volt power supply adjustment, and high voltage adjustment to maintain the high voltage within the specified limits.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is particularly recommended that only parts designated on the parts list in this manual be used for component replacement designated by mark ⚠ . No deviations from resistance wattage or voltage ratings may be made for replacement items designated by mark ⚠ .

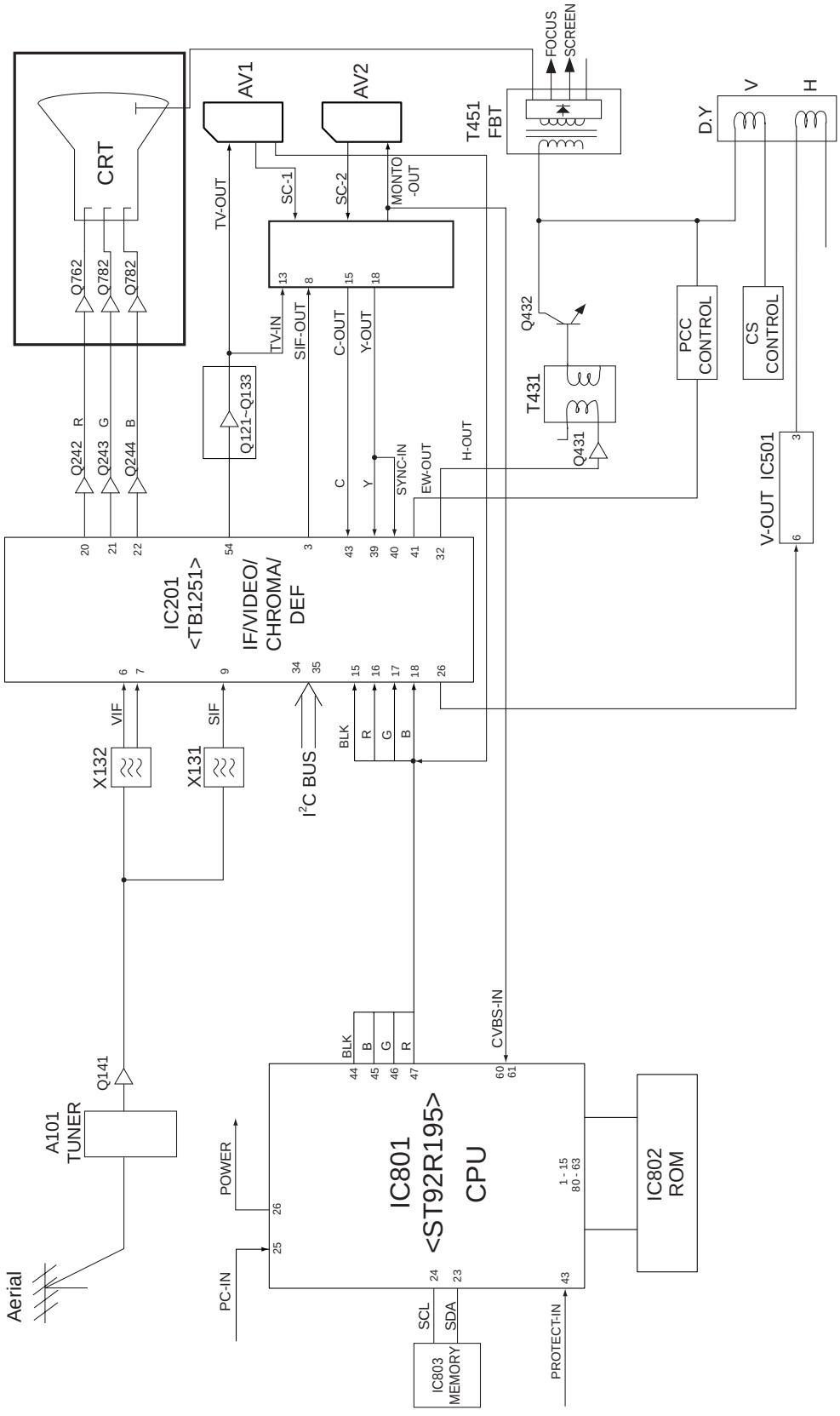
SPECIFICATIONS

COMMON SPECIFICATIONS		
Power source	AC 220~240V, 50Hz	
Television system	System I	
Colour system	PAL/NTSC4.43 (PAL/NTSC4.43/MTSC3.58 IN AV MODE)	
Receiving channel	UHF: #21~69	
Aerial input impedance	75ohm	
AV terminal		
21 Pin SCART Terminal	AV1:CENELEC standard with RGB AV2:CENELEC standard with S-inputs AV3:RCA Terminal, Video and Audio (L/R)	
Sound output(Music)	12 x 2	
DIFFERENCES	**CE28WN5-B**	**CE32WN5-B**
Dimensions (WxHxD)	779 x 524 x 511.5mm	880 x 577.5 x 567mm
Weight	32.5 Kg	46.3 Kg

BLOCK DIAGRAM

This is a diagram for all models and therefore differs slightly from the actual block diagram.

Outline



AV Selector
NICAM DECODER

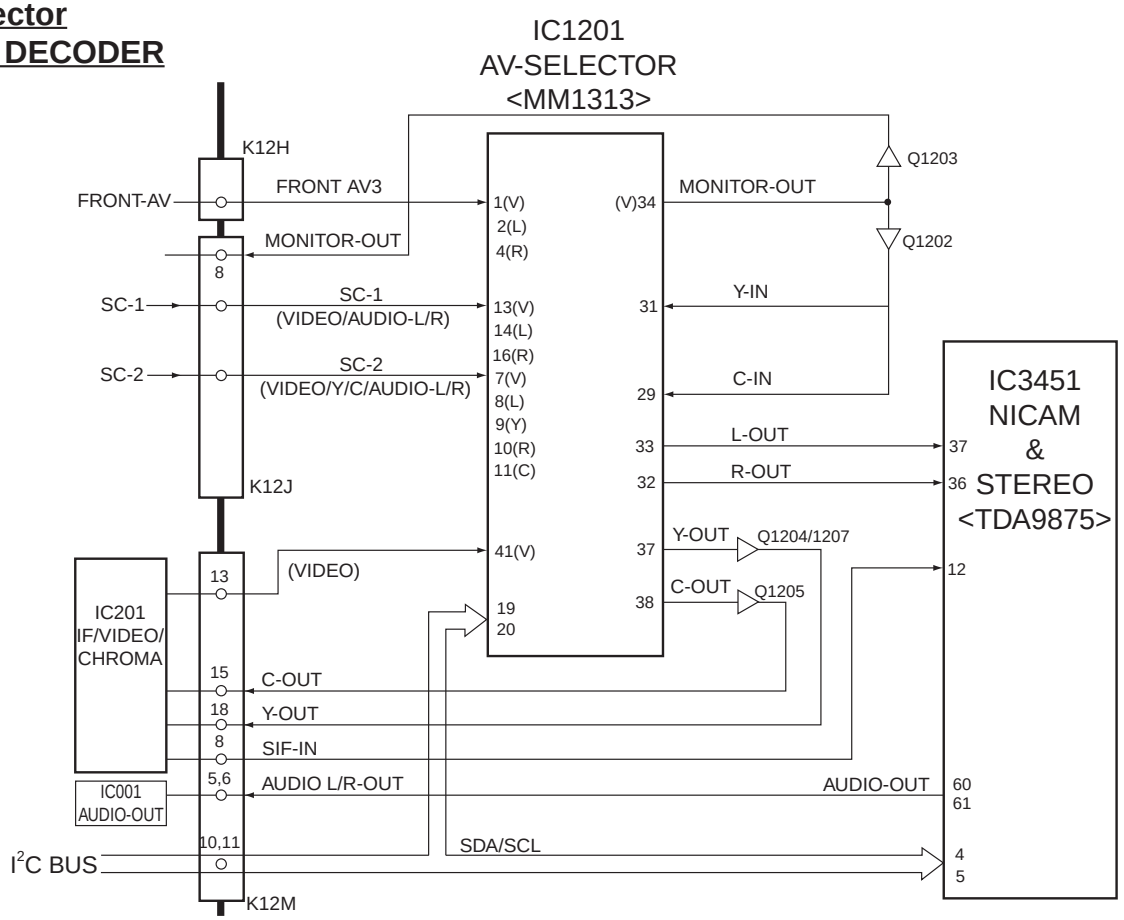


Fig.-2

System Control

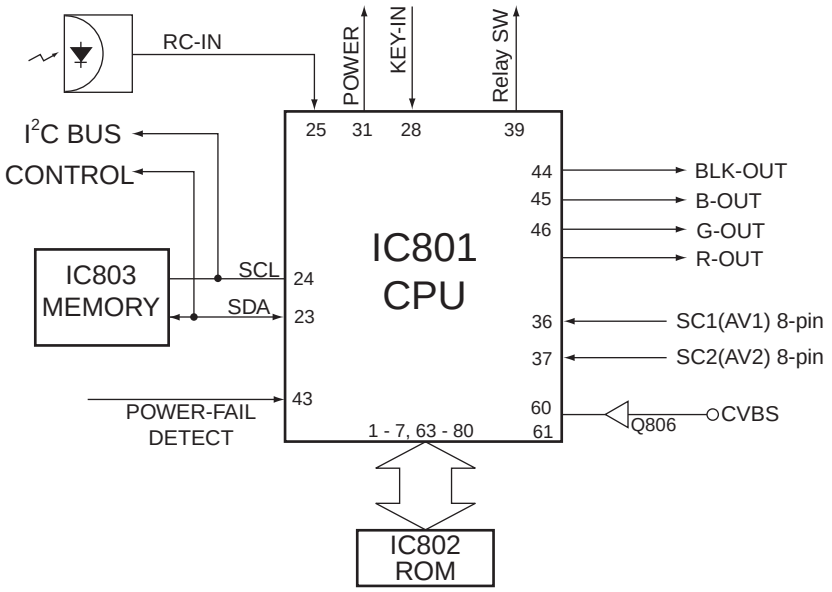
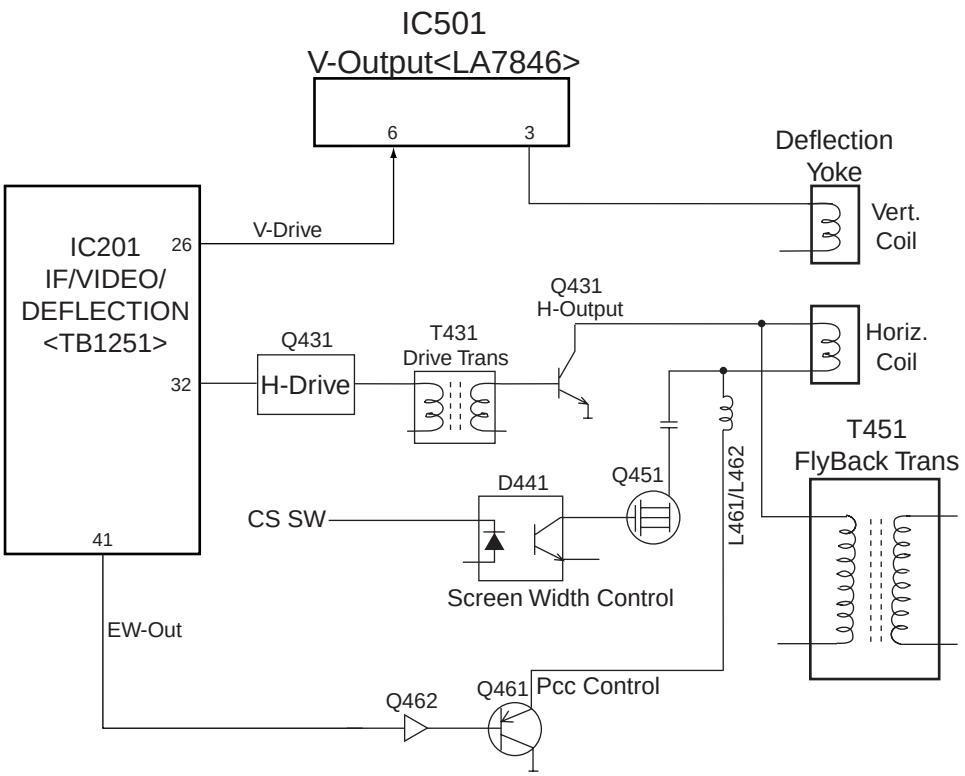


Fig.-3

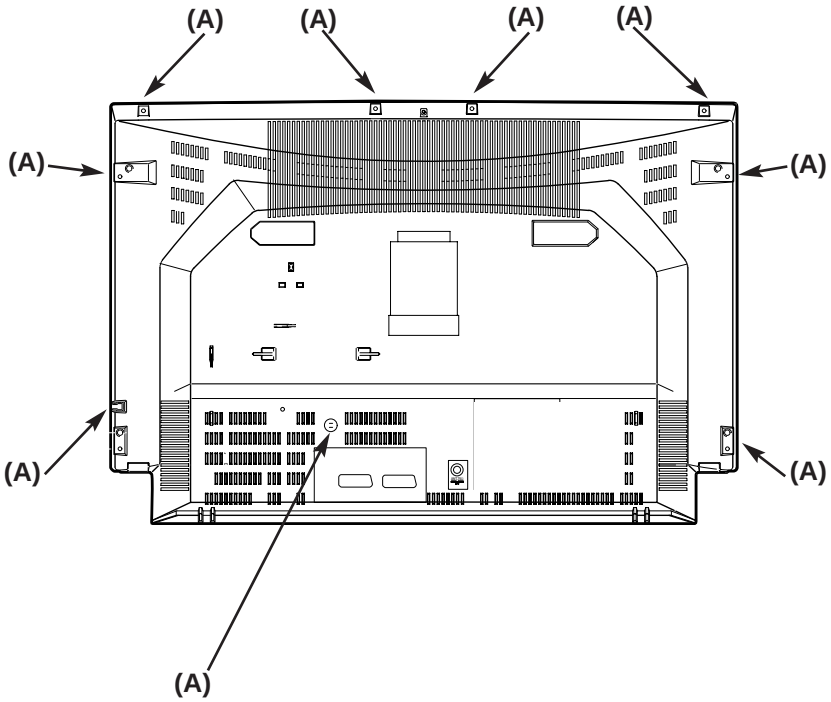
Deflection Control



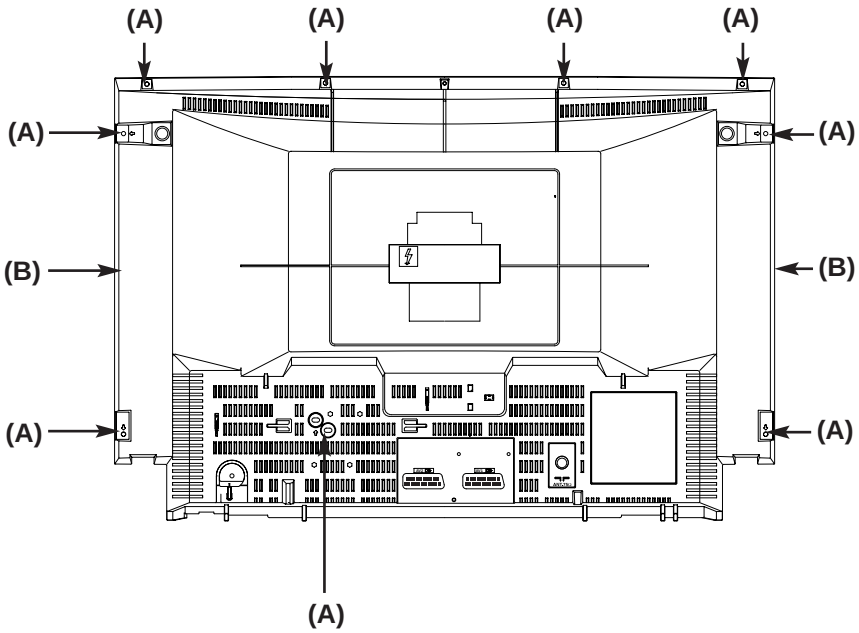
CABINET DISASSEMBLY

CABINET BACK DISASSEMBLY

1. Remove 9 screws(A) for 28”
2. Pull out the cabinet back.



1. Remove 9 screws (A) + 2 screws (B) for 32”
2. Pull out cabinet back



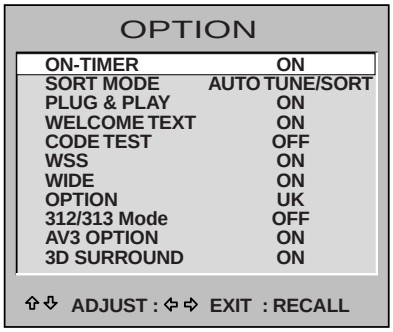
OPTION SETTING

[After replacing the Memory IC (IC803)]

The memory IC, IC803, stores the option data of TV set and service adjustments data for each circuit, therefore, when the memory IC is replaced, it should be performed following setting and “SERVICE ADJUSTMENT” on next page.

To enter to the Option Mode

+ Press and hold the **F/OK** button on the remote control and **P▼** button on the front panel of the TV. The option window will appear on the screen.



To set the option mode

+ Highlight the desired option item by using the **P▲** or **P▼** button .
+ To switch the option mode, use the **Volume - (LEFT)** or **Volume + (RIGHT)** button.
+ The data which is set in the option mode is stored into the memory IC automatically.

Following table shows the available option items and default setting mode.

Option Mode	Mode	Description & Note
ON-TIMER	ON or OFF	On-timer available, default “ON”
SORT MODE	AUTO TUNE/SORT	Tuning mode, default “AUTO TUNE/SORT”
	or AUTO TUNE	
	or ATS EURO PLUS	
PLUG & PLAY	ON or OFF	Plug & Play mode, default “ON”
WELCOME TEXT	ON or OFF	Display message when first set up, default “ON”
CODE TEST	OFF or ON	For factory use, default “OFF”
WSS	ON or OFF	Wide Screen Signaling available, default “ON”
WIDE	ON or OFF	Wide mode, default “ON”
OPTION	UK or IRELAND	Destination option , default “UK”
312/313 Mode	ON or OFF	Teletext mode, default OFF
AV3 OPTION	ON or OFF	Front AV disable, default ON
3D SURROUND	ON or OFF	3D Surround available, default ON

Exit from the Service Mode

+ Press the **RECALL** button.

SERVICE ADJUSTMENTS

Note: Some items of the service adjustments for this chassis are controlled by the CPU, IC801, and the adjustments are carried out by using the RC handset.

[After replacing the Memory IC (IC803)]

The memory IC, IC803, stores the service adjustments data for each circuit, therefore, when the memory IC is replaced, it should be performed “OPTION SETTING” on previous page and the following adjustments, refer to further adjustment on page 14.

ADJUSTABLE SERVICE ADJUSTMENT

REGULAR

Item No.	OSD	Description
1	AGC	AGC Adjustment
2	CUT	Cut-Off Drive Adjustment
3	GRY	G-Drive Adjustment
4	GRY	B-Drive Adjustment
7	HBP	H-Blanking Phase Adjustment
8	OSD	OSD Positioning Adjustment

WIDE

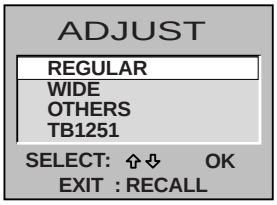
Item No.	OSD	Description
1	P V-P	Vertical Centre Adjustment
2	P H-P	Horizontal Centre Adjustment
5	P V-S	Vertical Size Adjustment
6	P H-S	Horizontal Size Adjustment
7	P PCC	Pcc Adjustment
8	P TRP	Trapezoid Distortion Adjustment
10	P CNR	Corner Adjustment

IMPORTANT NOTICE

Do not attempt to adjust service adjustments not listed on the above otherwise it may cause loss of performance and product safety.

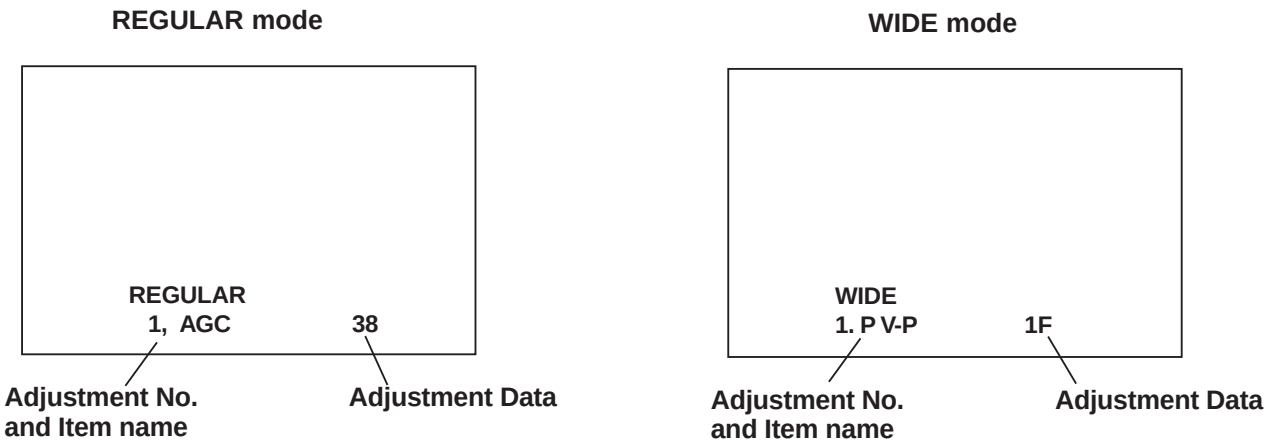
To enter to the Service Mode

+ Press and hold the **GREEN** button on the remote control and then press the **P▼** button inside of the door. The adjustment window will appear on the screen.



To select the mode and service item and change data value

+ Highlight the desired adjustment mode by using the **P▲** or **P▼** button and then press the **F/OK** button.
+ To select the adjustment item, use the **P▲** or **P▼** button.
+ To change the service data, use the **Volume -(LEFT)** or **Volume + (RIGHT)** button.
+ The data which is set in the service mode is stored into the memory IC automatically.



Exit from the Service Mode

+ Press the **RECALL** button or turn off the TV set by using the Mains switch.

INITIALISATION OF MEMORY IC

To initialise the memory IC (IC803), press and hold the **NORMAL** button on te remote control and then press the **P▲** button on the front panel of the TV set, and then turn the Mains switch Off and On. Now the initialisation is completed.
When initialised the memory IC, all of the setting data (option data and service adjustment data) stored in the IC are reset to the default value. So it is necessary to set the option settings and readjust the service adjustments listed on left page.

ADJUSTMENTS

IMPORTANT NOTICE

Do not attempt to adjust the following service adjustments except when adjustments are required in servicing otherwise it may cause loss of performance and product safety.

+ B VOLTAGE ADJUSTMENT

1. Receive white raster pattern.
2. Set controls to normal.
3. Connect digital voltmetre to test point TP-B and GND.
4. Adjust voltage to 145 ±0.5V by using VR641.

AGC ADJUSTMENT

1. Input and tune an RF signal which is UHF to the clearest station.
2. Connect digital voltmetre to test point TP-A and GND.
4. Enter to the service mode and select mode “REGULAR”, and select item no.1 “REGULAR 1, AGC”.
5. Press the **LEVEL+** or **LEVEL -** button to adjust voltage to be 3.2Vdc.

FOCUS ADJUSTMENT

By using FOCUS VR, adjust focus control for well defined scanning lines.

GREY SCALE ADJUSTMENT

SCREEN ADJUSTMENT

1. Receive black & white pattern.
2. Enter to the service mode and select mode “REGULAR”, and select item no. 2 “REGULAR 2, CUT”. The horizontal line will appear on the screen.
3. Set the SCREEN VR for one colour to be just visible.
4. Using the numeric buttons shown set each colour to minimum by decreasing to the point where any further decrease resets the adjustment to maximum value.

BIAS ADJUSTMENT

5. By using the buttons 1, 2, 4, 5, 7, 8 on the remote control, adjust the line to be white.

The key allocation is as follows;

Button No.	Operation
1	Increase Red
2	Decrease Red
4	Increase Green
5	Decrease Green
7	Increase Blue
8	Decrease Blue

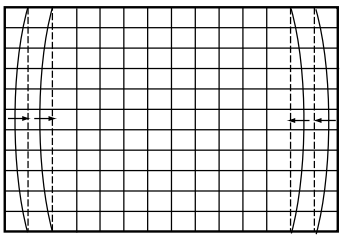
DRIVE ADJUSTMENT

6. Select item no.3 “REGULAR 3, GRY” (G-Drive) or 4 “REGULAR 4, GRY” (B-Drive) and adjust both initially to 3F.
7. Change data value of each item by using **LEVEL +** or **LEVEL -** button to obtain the proper white balance.

PCC ADJUSTMENT

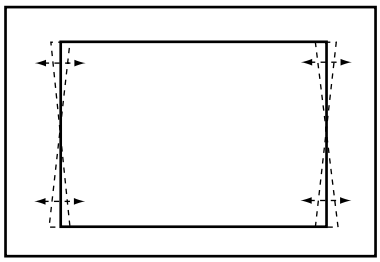
PCC ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “WIDE”, and select item no. 7 “WIDE 7.P PCC”.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the vertical line to be straight.



TRAPEZOID ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “WIDE”, and select item no. 8 “WIDE 8.P TRP”.
3. Press the **LEVEL+** or **LEVEL -** button to correct the trapezum distortion of the vertical line.



CORNER ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "WIDE", and select item no. 10 "WIDE 10.P CNR".
3. Press the **LEVEL+** or **LEVEL -** button to correct the distortion of the vertical line around the corners.

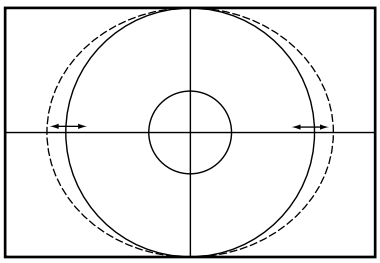
HORIZONTAL ADJUSTMENT

HORIZONTAL CENTRING ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "WIDE", and select item no. 2 "WIDE 2.P H-P".
3. Press the **LEVEL+** or **LEVEL -** button to adjust the horizontal centre.

HORIZONTAL WIDTH ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "WIDE", and select item 6 "WIDE 6.P H-W".
3. Press the **LEVEL+** or **LEVEL -** button to adjust the horizontal width.



HIGH-VOLTAGE CONFIRMATION

1. Receive circular pattern and set screen mode to "FULL".
2. Set controls to normal.
3. Connect high-voltage meter to the anode of CRT and GND.
4. Confirm that voltage is 29.5±1.0kV for 28" model.
   30.5±1.0kV for 32" model.

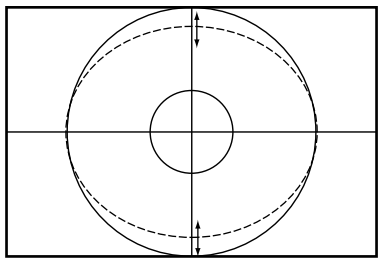
VERTICAL ADJUSTMENT

VERTICAL CENTRING ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "WIDE", and select item no. 1 "WIDE 1.P V-P".
.3 Press the **LEVEL+** or **LEVEL -** button to adjust the vertical centre.

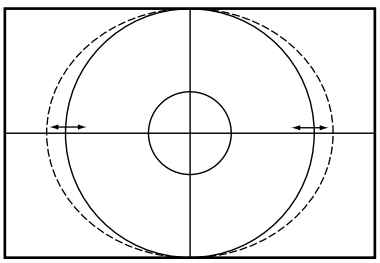
VERTICAL HEIGHT ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "WIDE", and select item no. 5 "WIDE 5.P V-S.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the vertical height.



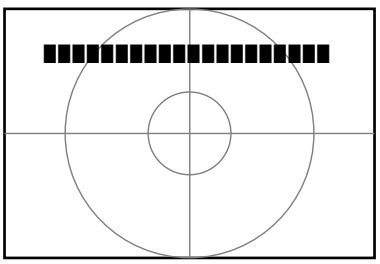
H-BLANK ADJUSTMENT

1. Receive circular pattern .
2. Enter to the service mode and select mode "REGULAR", and select item no. 7 "REGULAR 7.HBF".
3. Press the **LEVEL+** or **LEVEL -** button to adjust the centre of picture image to be screen centre.



OSD POSITIONING ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "REGULAR", and select item no. 8 "REGULAR 8 OSD". The OSD test bar will appear on the top of screen.
3. Press the **LEVEL+** or **LEVEL -** button to adjust proper OSD positioning.



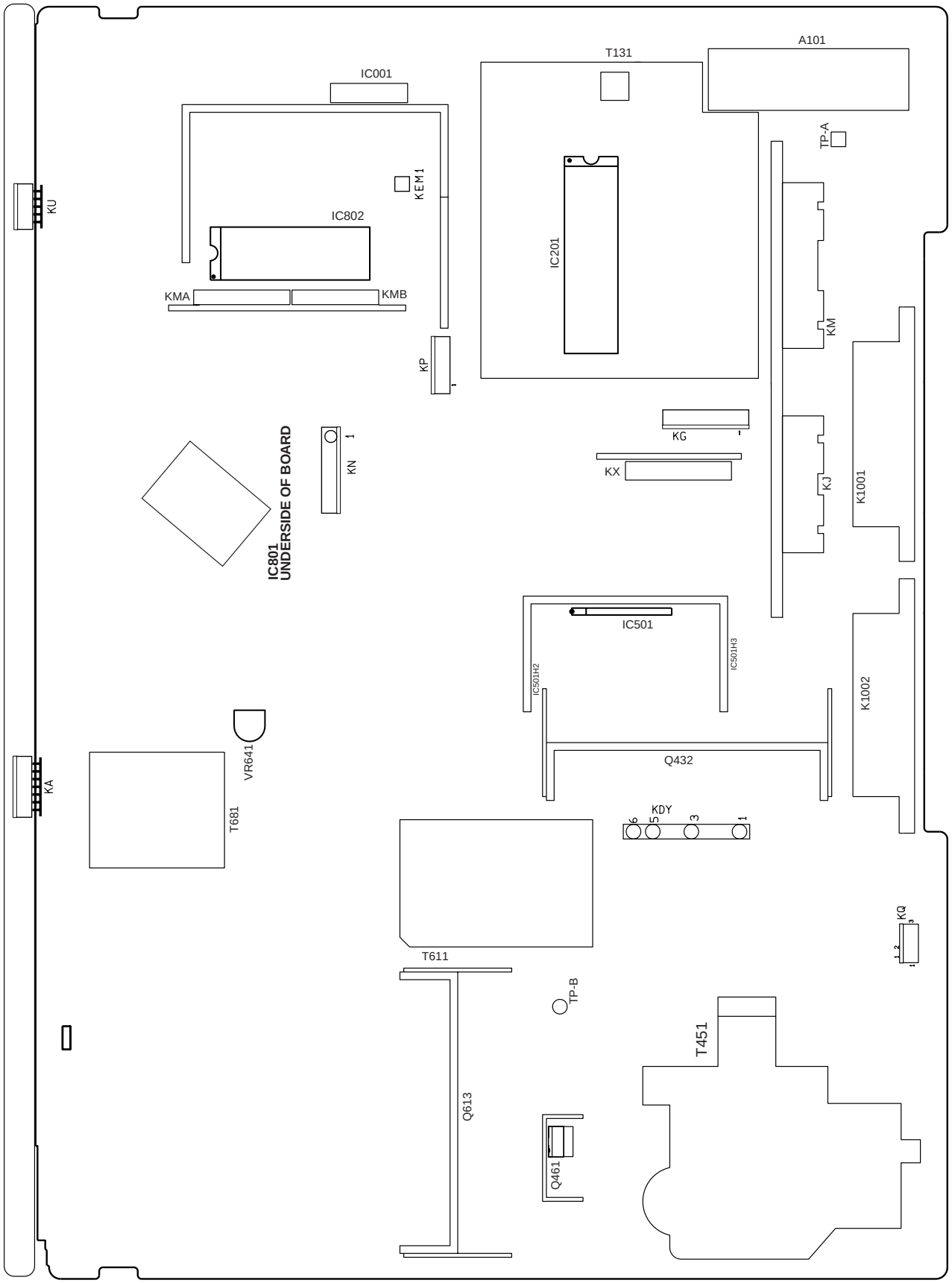
CPU PORT FUNCTIONS

Pin No.	Function Name	Function	IN/OUT
1	MMU0	External memory 0	OUT
2	MMU3	External memory 3	OUT
3	ADDR10	Address bus 10	OUT
4	DSN	Data Strobe	
5	ADDR11	Address bus 11	OUT
6	ADDR9	Address bus 9	OUT
7	ADDR8	Address bus 8	OUT
8	RWN	Read Write Strobe	
9	GND		
10	VDD	Power Supply	IN
11	OSC-IN	Clock Input	IN
12	OSC-OUT	Clock Output	OUT
13	ADDR13	Address bus 13	OUT
14	ADDR14	Address bus 14	OUT
15	MMU1	External memory 1	OUT
16	MMU2	External memory 2	OUT
17	MMU4	External memory 4	OUT
18	MMU5	External memory 5	OUT
19	P3.7/CSO	Protect - Power failure detect input	IN
20	P3.6/ASN	Dolby CLK(L/L')	OUT
21	P3.5	Dolby SO(Super 3D)	OUT
22	P3.4	PITTARI switch	OUT
23	P5.1	IIC BUS SDA	IN/OUT
24	P5.0	IIC BUS SCL	OUT
25	P2.0	Remote Control Signal Input	IN
26	P2.3	Power Relay & LED Drive On: L	OUT
27	P2.4	SUB CPU SO	OUT
28	P0.2	Key switch input	IN
29	P0.1	SUB CPU CLK	OUT
30	P0.0	SUB CPU SI	IN
31	P4.7	THRESHOLD switch	OUT
32	P4.6	JIMAKU(Caption) switch	OUT
33	P4.5	On-Timer LED Drive ON: L	OUT
34	VDD		IN
35	GND		
36	P2.1	AV1 Scart function input	IN
37	P2.2	AV2 Scart function input	IN
38	P2.5	RF AGC input	IN
39	P4.4	H-Blank On/Off	OUT
40	P4.3	AMP Mute Mute On: H	OUT
41	P4.2	Dolby RQ	OUT
42	P4.1	H-Blank Phase	OUT
43	P4.0	50/60Hz output 50Hz: H	OUT
44	FB	BLK Output for OSD (Active H)	OUT
45	B	Blue Output for OSD (Active H)	OUT
46	G	Green Output for OSD (Active H)	OUT
47	R	Red Output for OSD (Active H)	OUT
48	V-SYNC	V-Sync Input (Active H)	IN
49	H-SYNC	H-Sync Input (Active H)	IN
50	WSCR	VPS/WSS Slicer Line PLL	

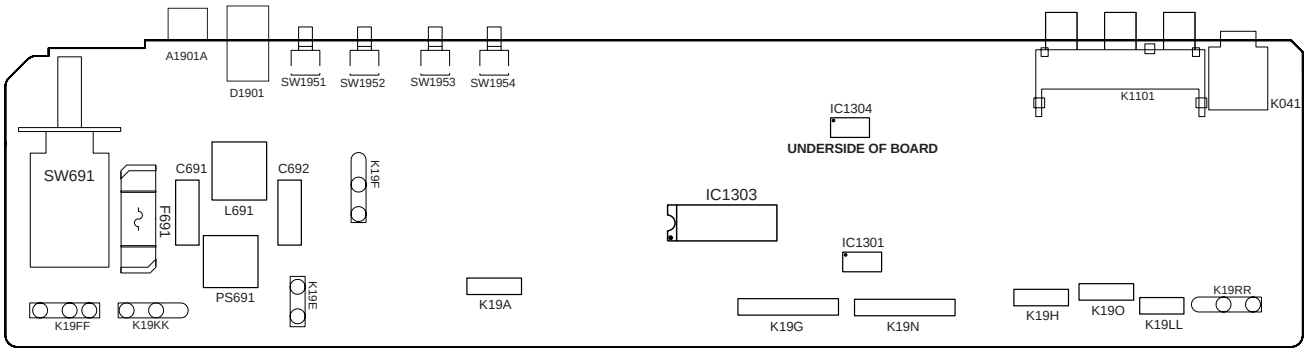
Pin No.	Function Name	Function	IN/OUT
51	WSCF	VPS/WSS Slicer Line PLL	
52	VDD-A	Analogue Power Supply	IN
53	PXFM	Pixel Frequency Multiplier	
54	RESET	Reset Input (Active L)	IN
55	MCFM	Pixel Frequency Multiplier	
56	JTRSTO		
57	TXCF		
58	CVBS0		
59	TEST0		
60	CVBS1	Video signal Input	IN
61	CVBS2	Video Signal Input	IN
62	GND-A		
63	DAT3	Data bus 3	IN
64	DAT4	Data bus 4	IN
65	DAT5	Data bus 5	IN
66	DAT6	Data bus 6	IN
67	DAT7	Data bus 7	IN
68	DAT2	Data bus 2	IN
69	DAT1	Data bus 1	IN
70	DAT0	Data bus 0	IN
71	ADDR0	Address bus 0	OUT
72	ADDR1	Address bus 1	OUT
73	ADDR2	Address bus 2	OUT
74	ADDR3	Address bus 3	OUT
75	ADDR4	Address bus 4	OUT
76	ADDR5	Address bus 5	OUT
77	ADDR6	Address bus 6	OUT
78	ADDR7	Address bus 7	OUT
79	ADDR12	Address bus 12	OUT
80	ADDR15	Address bus 15	OUT

COMPONENT LOCATIONS

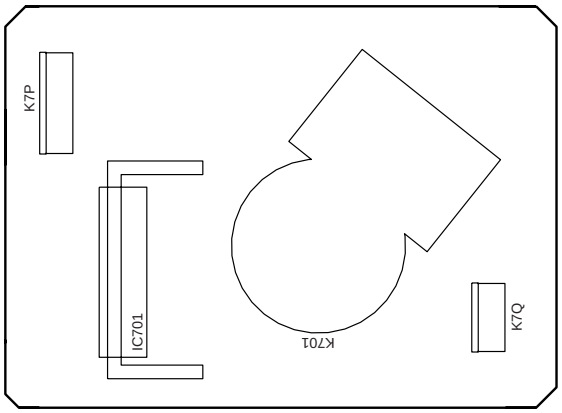
MAIN BOARD



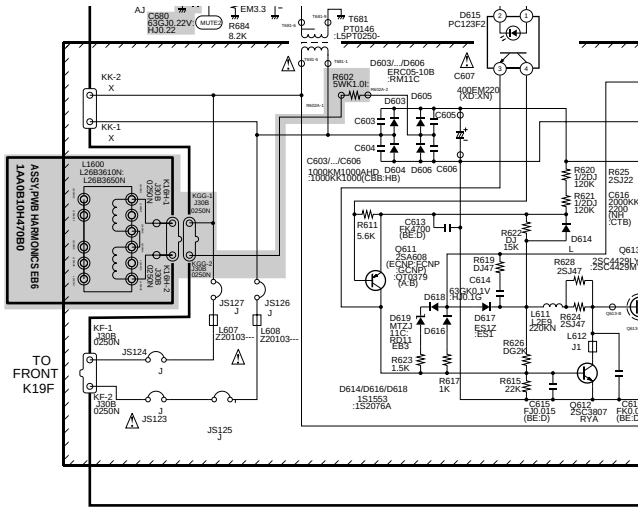
FRONT BOARD



CRT BOARD

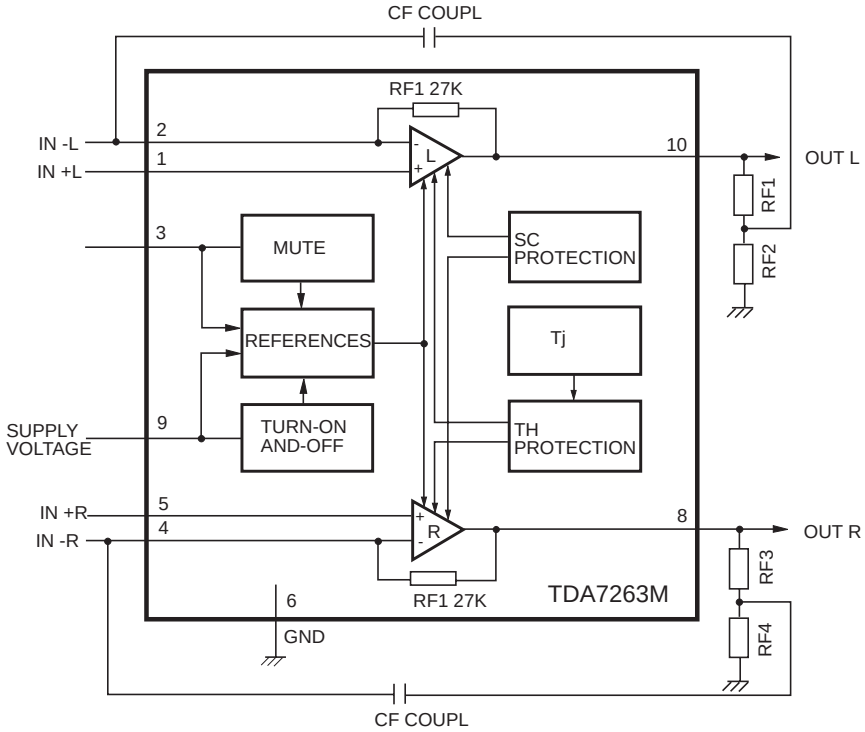


HARMONICS PANEL

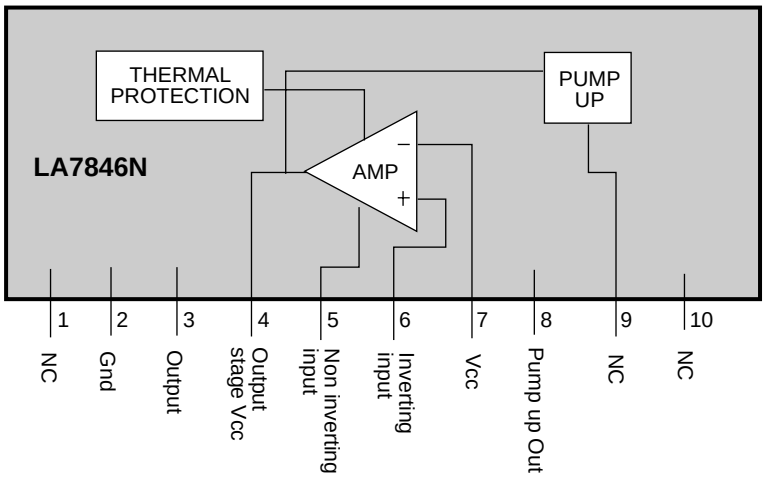


IC BLOCK DIAGRAMS

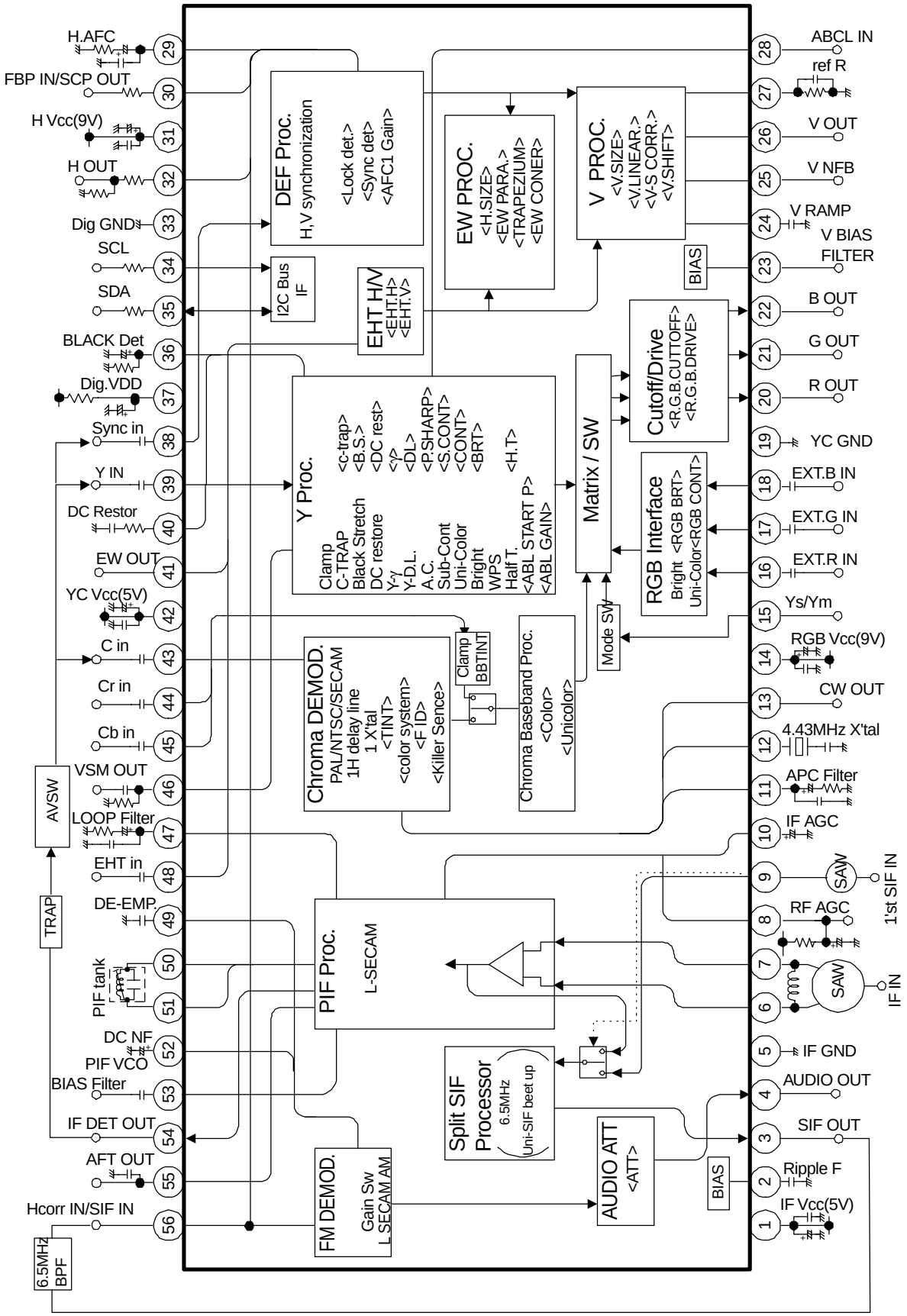
IC001 TDA7263M <Audio Output>



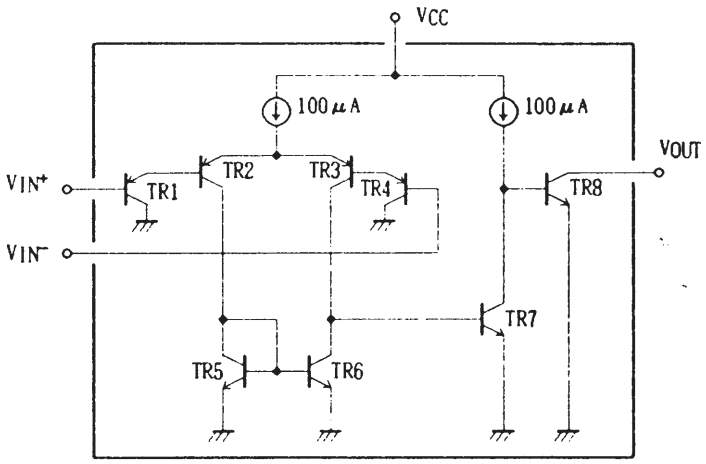
IC501 LA7846N <Vertical Output>



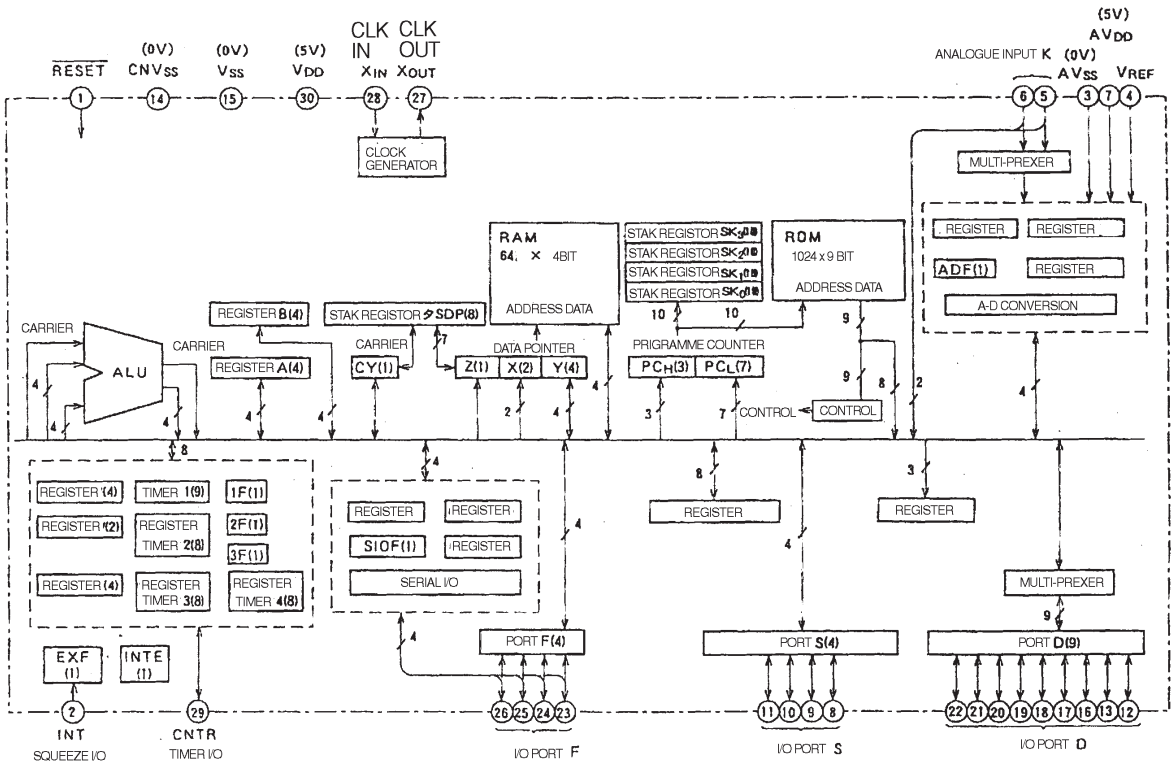
IC201 TB1251AN <IF/Video/Chroma/Def.>



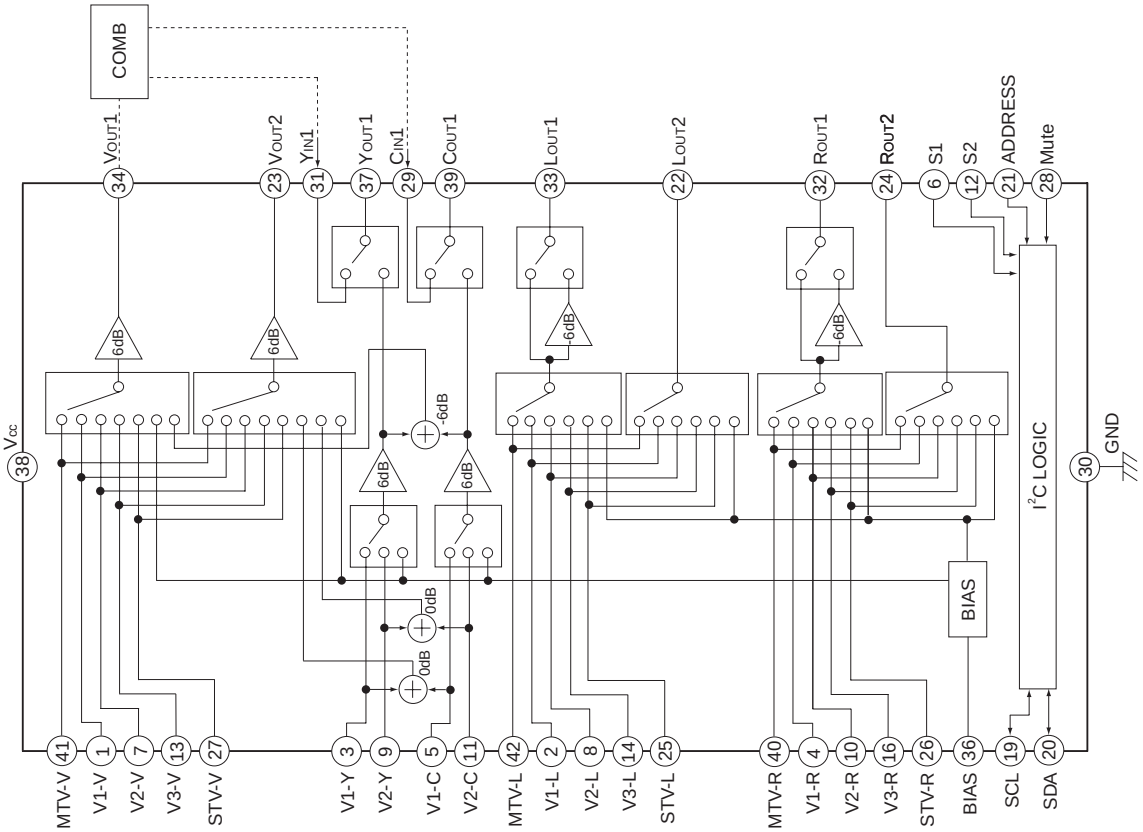
IC1301 LA6393D <Operation Amplifier>



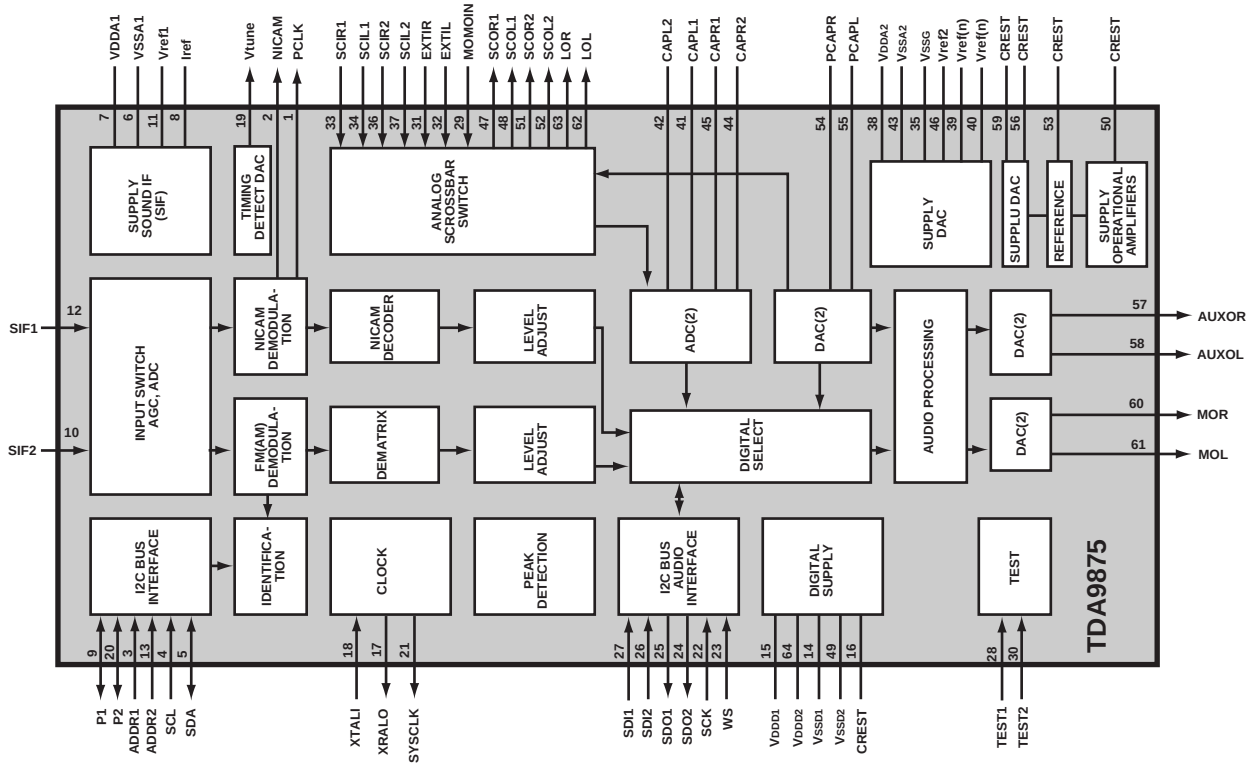
IC1303 M34225M1<Single Chip Micro-computer>



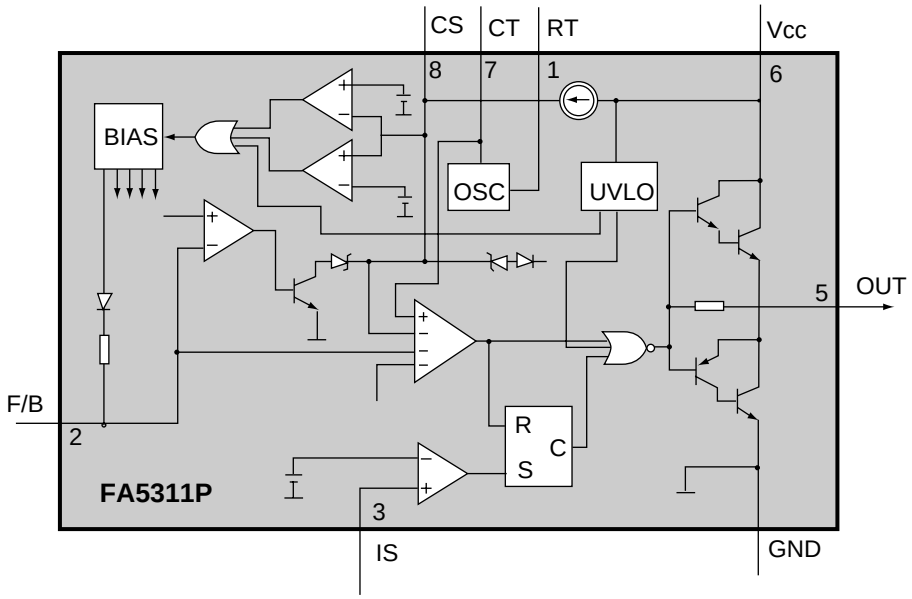
IC1201 MM1313BD<AV Selector>



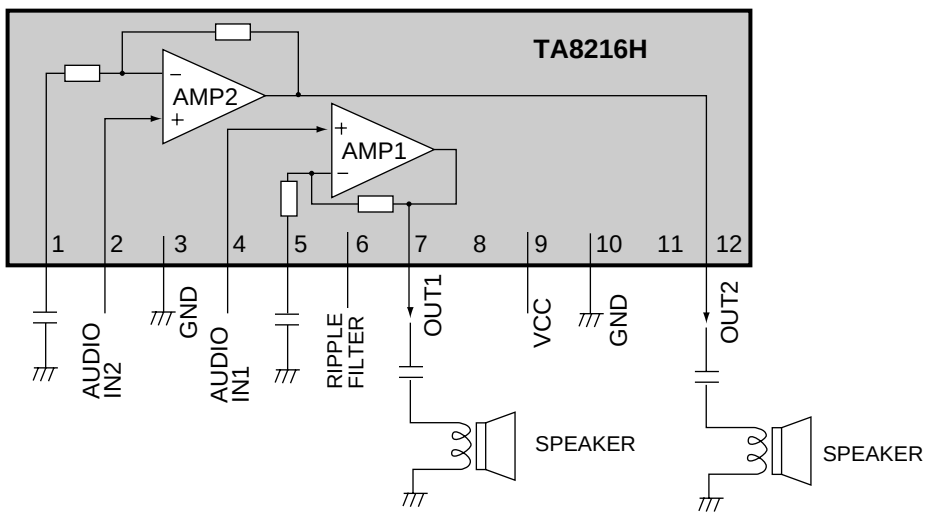
IC3451 TDA9875A <NICAM & Stereo Sound Decoder>



IC3001 FA5311P <Power Switching Controller>

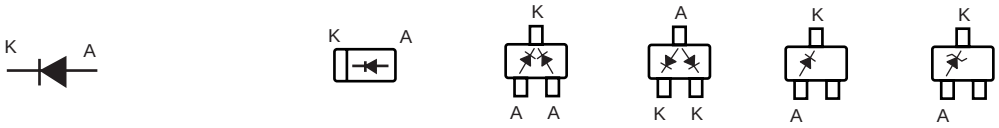


IC3051 TA8216H <Audio Amplifier>



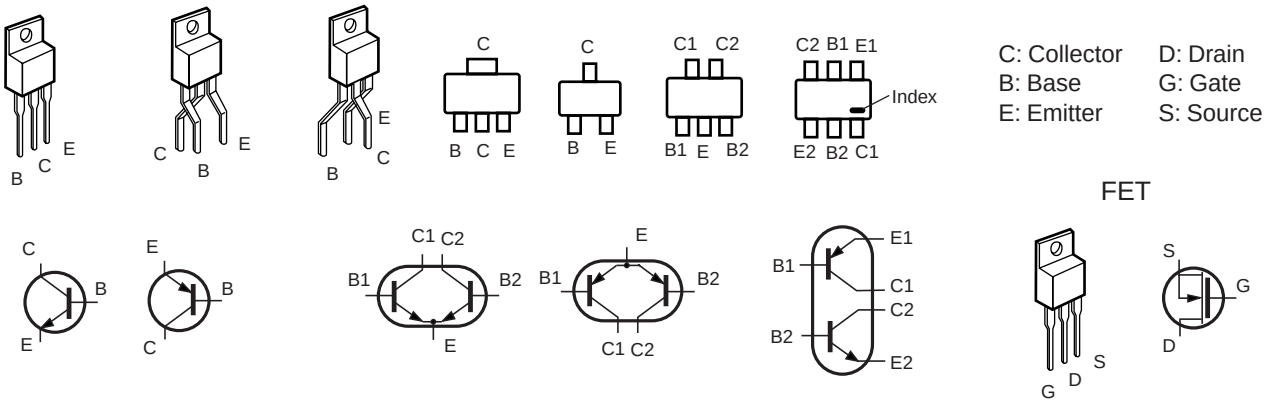
PIN DESCRIPTION OF SEMICONDUCTORS

● Diode

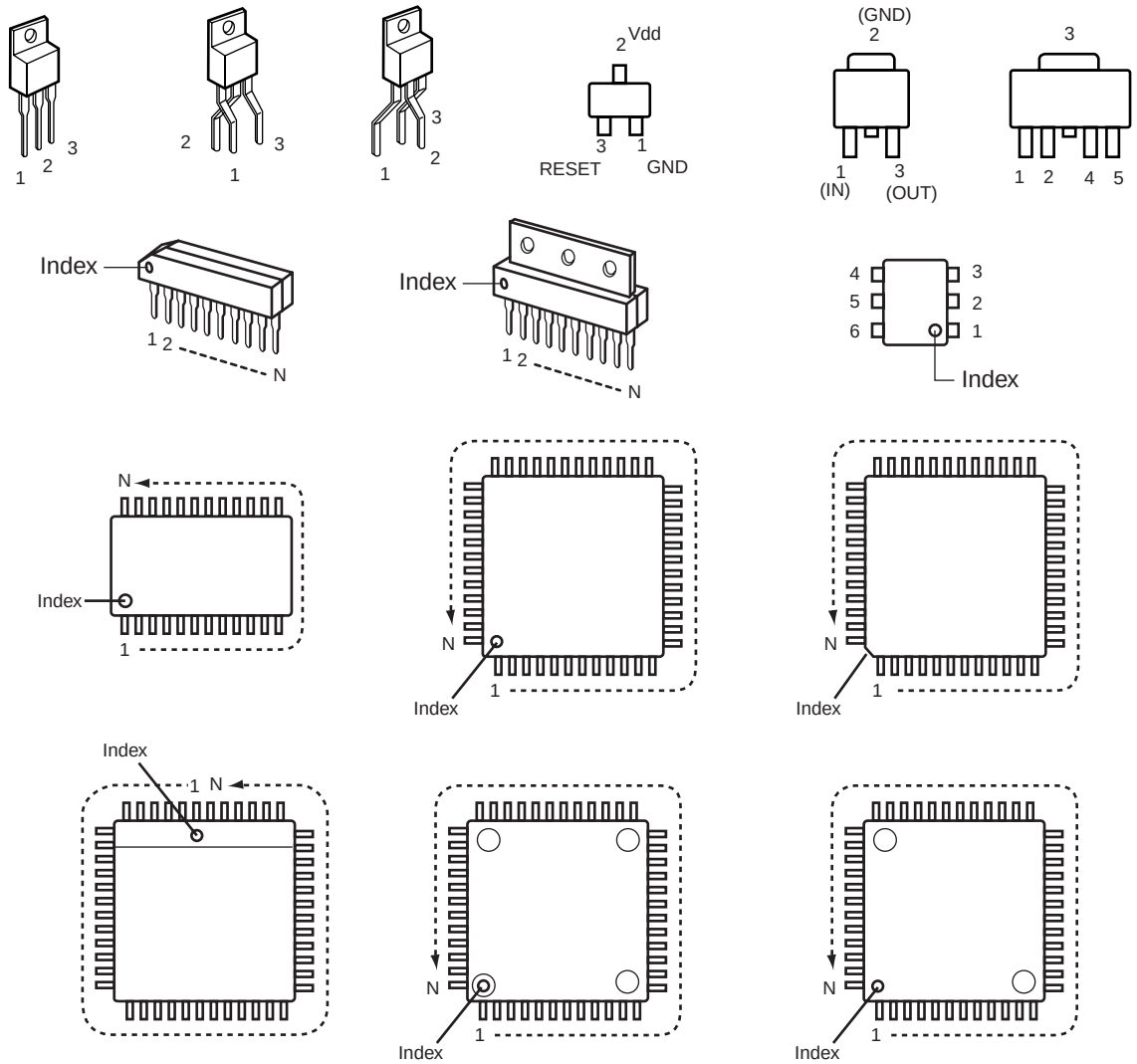


K: Cathode
A: Anode

● Transistor/FET



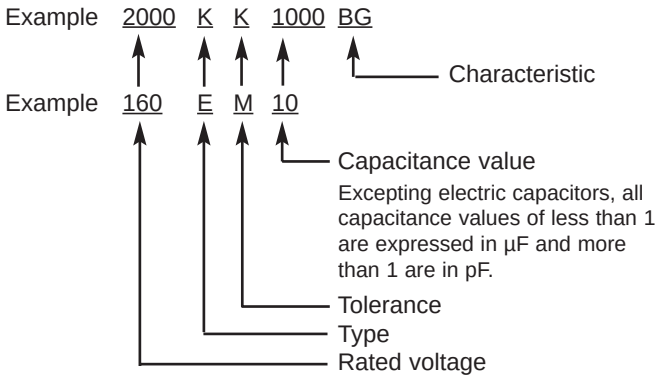
● IC



PARTS DESCRIPTION AND READING IN SCHEMATIC DIAGRAM

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video colour bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmetre.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF.
Tolerance
Type
Rated voltage

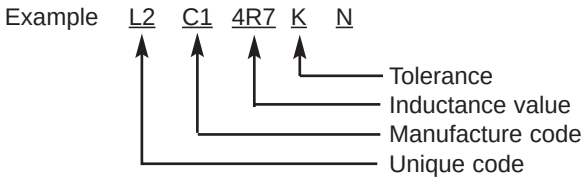
● Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-Polarised)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalised polypropylene
H	Metalised polypromylar
B	Ceramic (semiconductor)
G	Metalised polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● Tolerance table

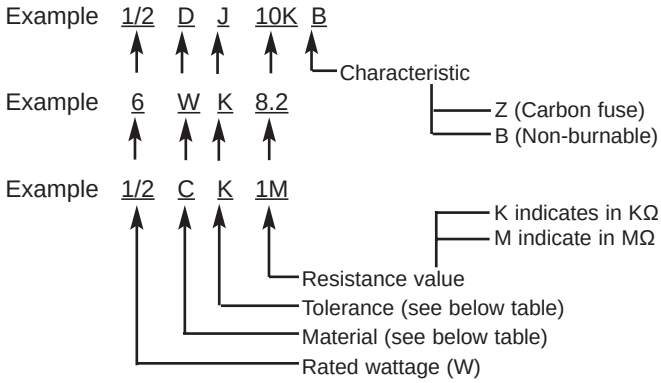
Mark	Tolerance
A	not specified
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
E	±2.5
H	±3
J	±5
K	± 0
M	±20
N	±30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

● Tolerance table

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● Diode

Mark	Type number
--	1S1555,1S2473,1S2076,1SS133,DS442,1SS176
K	1S1555,1S2473,1S2076,DS442
L	1S1555,1S2076A,1S2471
M	1SS133,1SS176,GMA01
N	1S1555,1S2473,1S2076,1SS133,DS442,1SS176,1N4148
P	1S1555,1S2076A,1S2471,1N4148
R	1S1555,1S2076,1S2473,DS442,1N4148
AA	1S1555,1S2076,1S2473,1SS133,DS442,1SS176,1N4148,GMA01

● Transistor (NPN type)

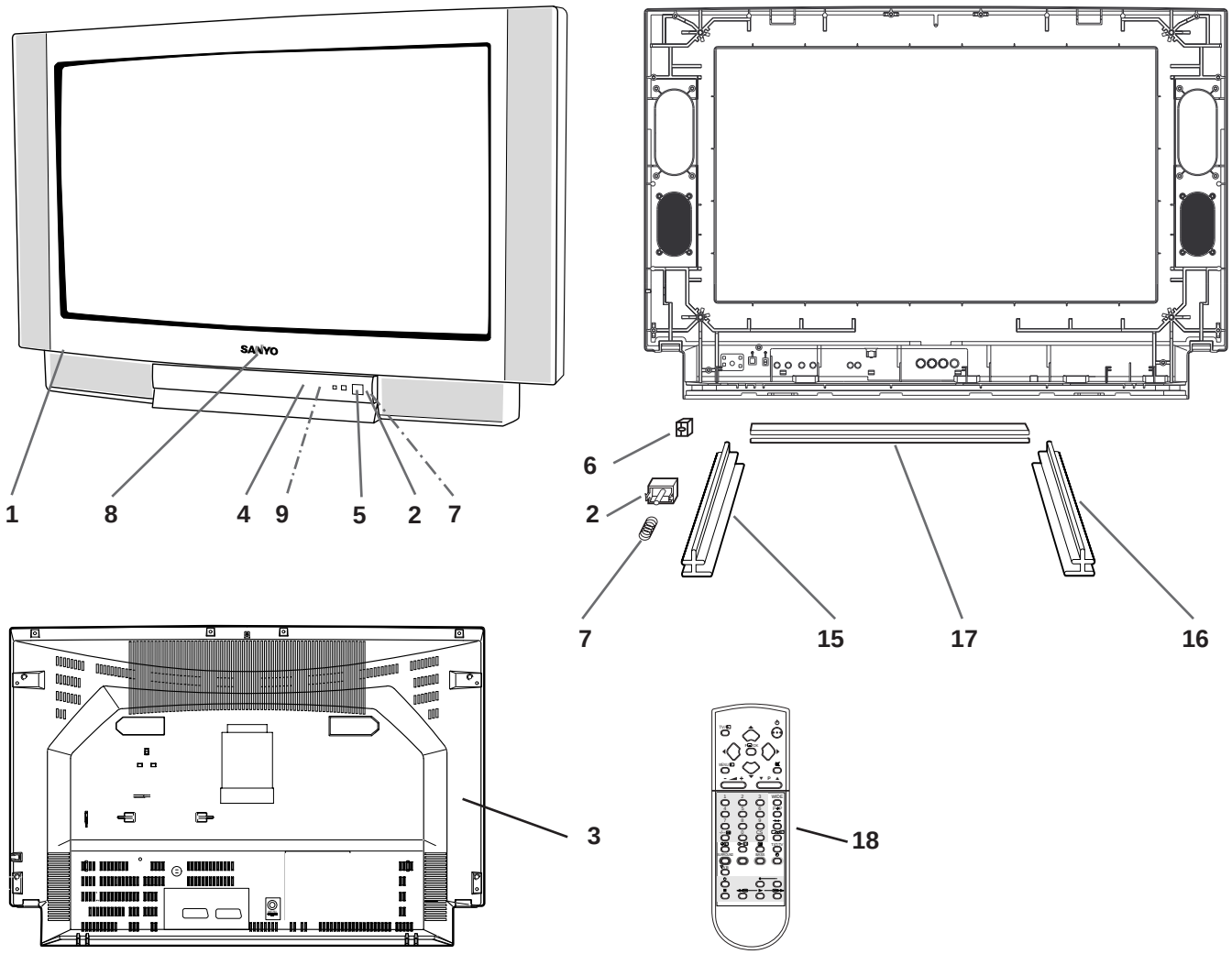
Mark	Type number					
--	2SC536	2SC945A	2SC1815	2SC1740	2SC1740S	KSC945C
A	E, F, G	P, Q, R	O, Y, G	Q, R, S	Q, R, S	
B	E, F, G	P, Q, R	O, Y, G	Q, R, S		
D	F, G	P, Q	Y, G	Q, R, S		
F	F, G	P	G	R, S		
H	F, G	P, Q	Y, G	Q, R, S		Y, G
I	E, F, G	P, Q, R	O, Y, G	Q, R, S		Y, G
G	F, G	P	G	R, S		G
AD	F, G	Q, R	Y, GR		Q, R, S	
AE	E, F, G	Q, R	O, Y, GR		Q, R, S	

● Transistor (PNP type)

Mark	Type number					
--	2SA608	2SA564A	2SA1015	2SA933	2SA933S	KSA733C
Y	E, F	Q, R	O, Y, G	Q, R		
W	F	R	Y, G	R		
V	E, F	Q, R	O, Y, G	Q, R		Y, G
U	F	R	Y, G	R		G
Z	E, F	Q, R	O, Y, G	Q, R	Q, R	
AB	F	R	Y		Q, R	
AE	E, F	Q, R	O, Y		R	

CABINET PARTS LIST FOR MODEL CE28WN5-B-00

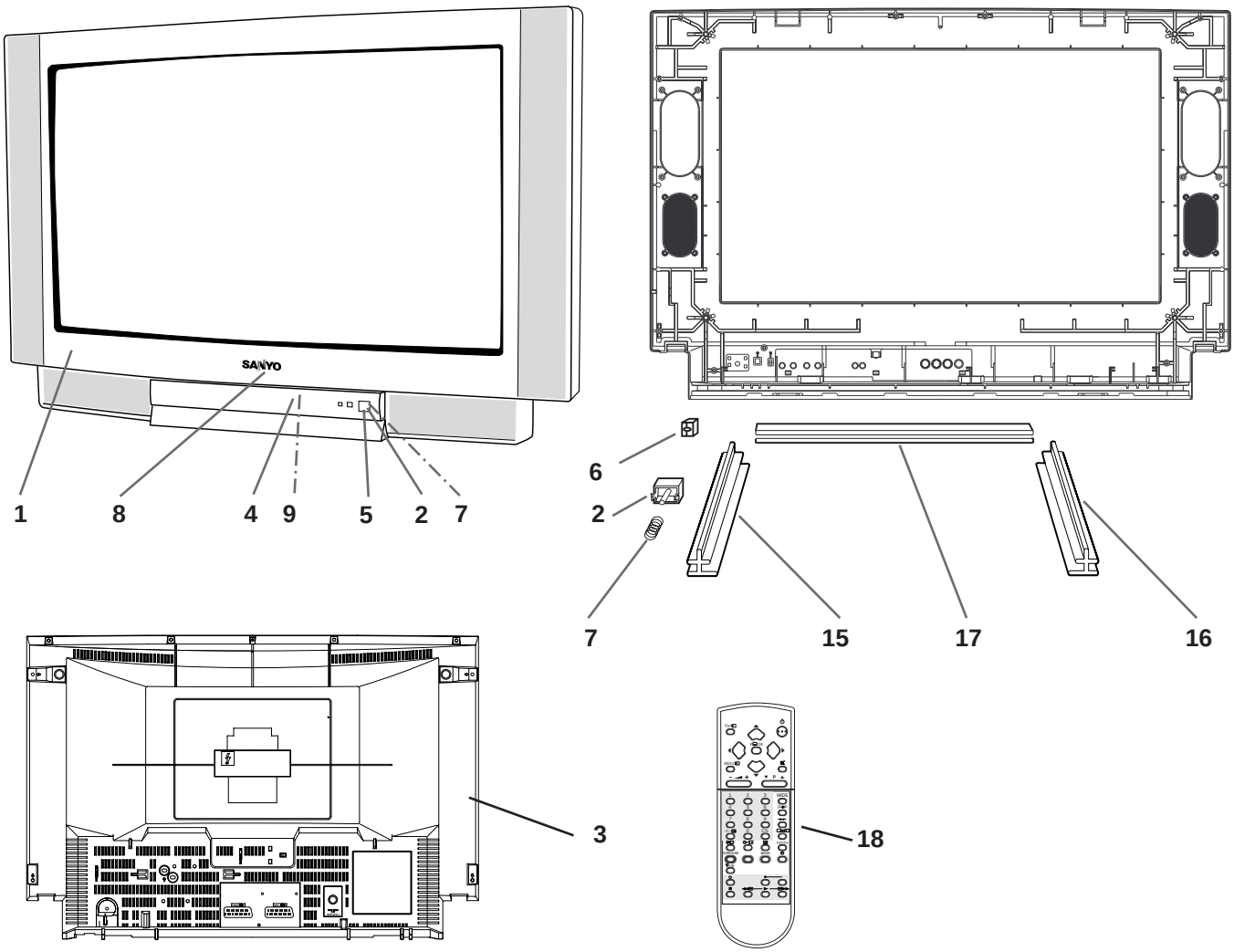
Note: Parts order must contain Service Ref. No., Part No., and descriptions.



Item	Part No.	Description
CABINET PARTS		
1	610 29 09746	CABINET FRONT-C3HA
2	610 277 5518	BUTTON POWER-F7HB
3	610 290 9937	CABINET BACK-C3HA
4	610 290 9760	DOOR-C3HA
5	610 290 9777	DEC IND-C3HA
6	610 253 2449	AC CORD HOLDER-U-D4VA
7	610 261 3032	SPRING-E7GC
8	645 043 5058	BADGE,SANYO*53.5X12L53.3
9	610 104 2505	LATCH PUSH,7.9X6.9BK
10	4AA2CN0026A--	CRT CUSHION-B3MY-UK
11	SKZZ0125	CRT SCREW 6 X 27
12	411 076 1301	SCR TPG BRZ 4X14
13	610 260 0131	HOLDER DC GBR-HBZ
14	411 076 1004	SCR TPG BRZ 4X12
15	610 277 6805	CHASSIS RAIL R-F7HS
16	610 277 6812	CHASSIS RAIL L-F7HS
17	610 277 6829	CHASSIS RAIL F-F7HS
ACCESSORIES		
18	JXMFE	RC TRANSMITTER
	610 293 1181	INSTRUCTIONS MANUAL-C3YAV
	SKP10188	QUICK SET UP GUIDE - F7HS
	610 293 8159	TV STAND WST2811

CABINET PARTS LIST FOR MODEL CE32WN5-B-00

Note: Parts order must contain Service Ref. No., Part No., and descriptions.



Item	Part No.	Description
CABINET PARTS		
1	610 291 2463	CABINET FRONT-C3YA
2	610 277 5518	BUTTON POWER-F7HB
3	610 291 2470	CABINET BACK-C3YA
4	610 290 9760	DOOR-C3HA
5	610 290 9777	DEC IND-C3HA
6	610 253 2449	AC CORD HOLDER-U-D4VA
7	610 261 3032	SPRING-E7GC
8	645 043 5058	BADGE,SANYO*53.5X12L53.3
9	645 019 2449	LATCH PUSH,7.9X6.9BK
10	610 224 5714	CRT CUSHION-D8CD-UK
11	SKZZ0125	CRT SCREW 6 X 27
12	SFPAN40160SM-	SCR TPG BRZ 4X16
13	610 265 4202	HOLDER DC GBR-F3SC
14	411 076 1004	SCR TPG BRZ 4X12
15	610 286 7756	CHASSIS RAIL R-F7HS-A
16	610 277 6812	CHASSIS RAIL L-F7HS
17	610 277 6829	CHASSIS RAIL F-F7HS
ACCESSORIES		
18	JXMFE	RC TRANSMITTER
	610 293 1181	INSTRUCTIONS MANUAL-C3YAV
	SKP10188	QUICK SET UP GUIDE - F7HS
	610 293 8159	TV STAND WST2811

CHASSIS ELECTRICAL PARTS LIST

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark ⚠.

Note: Parts order must contain Service Ref. No., Part No., and descriptions.

Read description in the Capacitor and Resistor as follows:

CAPACITOR

CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10PF

A: Not specified	B: ±0.1PF	C: ±0.25PF
D: ±0.5PF	F: ±1PF	G: ±2PF
R: ±0.25-0PF	S: ±0-0.25PF	E: +0-1PF

More than 10PF

A: Not specified	B: ±0.1%	C: ±0.25%
D: ±0.5%	F: ±1%	G: ±2%
H: ±3%	J: ±5%	K: ±10%
L: ±15%	M: ±20%	N: ±30%
P: +100-0%	Q: +30-10%	T: +50-10%
U: +75-10%	V: +20-10%	W:+100-10%
X: +40-20%	Y: +150-10%	Z: +80-20%

- 100P — Rated value: P=pico farad, U=Micro farad
- CERAMIC — Material:

CERAMIC .....Ceramic
MT-PAPER .....Metallized Paper
POLYESTER .....Polyester
MT-POLYEST .....Metallized Polyester
POLYPRO.....Polypropylene
MT-POLYPRO ....Metallized Polypropylene
COMPO FILM.....Composite film
MT-COMPO .....Metallized Composite
STYRENE.....Styrene
TA-SOLID .....Tantalum Solid
AL-SOLID .....Aluminium Solid
ELECT .....Electrolytic
NP-ELECT .....Non-polarised Electrolytic
OS-SOLID .....Aluminium Solid with Organic Semiconductive Electrolytic
DL-ELECT .....Double Layered Electrolytic

RESISTOR

CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A: General B: Non flammable Z: Low noise
  Other: Temperature coefficient
- J — Tolerance Symbols:
  A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
  F: ±1% G: ±2% J: ±5% K: ±10%
  M: ±20% P: +5-15%
- 4.7K — Rated value, ohms:
  K: 1,000, M: 1,000,000
- CARBON — Material:

CARBON .....Carbon
MT-FILM .....Metal Film
OXIDE-MT .....Oxide Metal Film
SOLID.....Composition
MT-GLAZE .....Metal Glaze
WIRE WOUND ....Wire Wound
CERAMIC RES....Ceramic
FUSIBLE RES ....Fusible

Ref. No.	Part No.	Description

Chassis construction

CE28WN5-B-00

1AA0B10H046D0	ASSY,PWB,MAIN C2HALC	(Page 25~30)
1AA0B10H04300	ASSY,PWB,FRONT C2YH 0805	(Page 30~31)
1AA0B10E59200	ASSY,PWB,NICAM-SW C2HA	(Page 32~33)
1AA0B10E59400	ASSY,PWB,CRT C2HC	(Page 33~34)
1AA0B10H047D0	ASSY,PWB,HARMONICS EB6WAB	(Page 36)
OUT OF CIRCUIT-013C3HAL		(Page 34)

Chassis construction

CE32WN5-B-00

1AA0B10H046C0	ASSY,PWB,MAIN C2YAVC (DIFFERENCES)	
1AA0B10H04300	ASSY,PWB,FRONT C2YH 0805	(Page 30-31)
1AA0B10E59200	ASSY,PWB,NICAM-SW C2HA	(Page 32-33)
1AA0B10E59400	ASSY,PWB,CRT C2HC	(Page 33-34)
1AA0B10H047D0	ASSY,PWB,HARMONICS EB6WAB	(Page 36)
OUT OF CIRCUIT-013C3YAV (DIFFERENCES)		(Page 36)

1AA0B10H046D0 ASSY,PWB,MAIN C2HALC

CAPACITOR

C001	403 314 5915	SMD CAP GRM40X5R474K16
C002	403 215 2310	CERAMIC 0.012U K 50V
C003	403 314 5915	SMD CAP GRM40X5R474K16
C004	403 215 2310	CERAMIC 0.012U K 50V
C005	403 258 3619	25 YK 33 M TA 0511
C006	403 258 3619	25 YK 33 M TA 0511
C007	403 164 0214	CERAMIC 0.1U Z 25V
C008	403 164 0214	CERAMIC 0.1U Z 25V
C009	403 164 0214	CERAMIC 0.1U Z 25V
C010	403 164 0214	CERAMIC 0.1U Z 25V
C011	403 194 3800	ELECT 2200U M 25V
C012	403 194 3800	ELECT 2200U M 25V
C015	403 047 3100	ELECT 47U M 25V
C021	403 154 1917	ELECT 1000U M 35V
C052	403 113 3815	CERAMIC 1000P K 50V
C053	403 149 9218	CERAMIC 0.01U Z 50V
C054	403 068 9016	CERAMIC 100P K 50V
C1001	403 070 0919	CERAMIC 0.1U K 50V
C101	403 233 1517	ELECT 4.7U M 50V
C1010	403 157 3611	CERAMIC 100P J 50V
C1011	403 279 4312	CERAMIC 0.33U K 16V
C1012	403 157 3611	CERAMIC 100P J 50V
C1013	403 279 4312	CERAMIC 0.33U K 16V
C1014	403 113 3815	CERAMIC 1000P K 50V
C1015	403 233 0817	ELECT 10U M 50V
C1016	403 113 3815	CERAMIC 1000P K 50V
C1017	403 189 2425	ELECT 10U M 16V
C1018	403 256 2416	CERAMIC 0.22U Z 50V
C102	403 039 3507	ELECT 470U M 6.3V
C1020	403 149 9218	CERAMIC 0.01U Z 50V
C1021	403 157 3611	CERAMIC 100P J 50V
C1022	403 279 4312	CERAMIC 0.33U K 16V
C1024	403 157 3611	CERAMIC 100P J 50V
C1025	403 279 4312	CERAMIC 0.33U K 16V

Ref. No.	Part No.	Description
C1026	403 113 3815	CERAMIC 1000P K 50V
C1027	403 233 0817	ELECT 10U M 50V
C1028	403 113 3815	CERAMIC 1000P K 50V
C1029	403 233 0817	ELECT 10U M 50V
C103	403 039 3507	ELECT 470U M 6.3V
C104	403 233 0817	ELECT 10U M 50V
C106	403 149 9218	CERAMIC 0.01U Z 50V
C109	403 149 9218	CERAMIC 0.01U Z 50V
C110	403 149 9218	CERAMIC 0.01U Z 50V
C121	403 149 9218	CERAMIC 0.01U Z 50V
C122	403 164 0214	CERAMIC 0.1U Z 25V
C124	403 157 1518	CER.GRM39COG3R0C50PT
C125	403 069 8315	CERAMIC 0.01U Z 50V
C128	403 241 3817	ELECT 220U M 10V
C129	403 145 9915	CERAMIC 22P J 50V
C130	403 157 2911	CERAMIC 47P J 50V
C131	403 149 9218	CERAMIC 0.01U Z 50V
C135	403 149 9218	CERAMIC 0.01U Z 50V
C136	403 149 9218	CERAMIC 0.01U Z 50V
C138	403 149 9218	CERAMIC 0.01U Z 50V
C139	403 237 7941	MT-COMPO 0.22U J 50V
C140	403 233 0817	ELECT 10U M 50V
C141	403 207 0317	SMD 1MF GRM40Y5V105Z16PT
C143	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
C144	403 248 2813	ELECT 2.2U M 50V
C145	403 149 9218	CERAMIC 0.01U Z 50V
C146	403 248 1618	ELECT 47U M 16V
C201	403 149 9218	CERAMIC 0.01U Z 50V
C203	403 269 5916	CERAMIC 0.22U K 16V
C204	403 149 9218	CERAMIC 0.01U Z 50V
C205	403 149 9218	CERAMIC 0.01U Z 50V
C206	403 149 9218	CERAMIC 0.01U Z 50V
C207	403 149 9218	CERAMIC 0.01U Z 50V
C208	403 248 1618	ELECT 47U M 16V
C209	403 164 0214	CERAMIC 0.1U Z 25V
C210	403 086 2300	NP-ELECT 1U M 50V
C211	403 113 3815	CERAMIC 1000P K 50V
C212	403 086 2300	NP-ELECT 1U M 50V
C213	403 233 0817	ELECT 10U M 50V
C214	403 149 9218	CERAMIC 0.01U Z 50V
C216	403 233 0817	ELECT 10U M 50V
C217	403 160 0020	ELECT 470U M 10V
C218	403 149 9218	CERAMIC 0.01U Z 50V
C219	403 155 2418	CERAMIC 5600P K 50V
C220	403 207 0317	SMD 1MF GRM40Y5V105Z16PT
C230	403 269 5916	CERAMIC 0.22U K 16V
C231	403 113 4119	CERAMIC 2200P K 50V
C232	403 233 3818	CERAMIC 10P C 50V
C233	403 248 1618	ELECT 47U M 16V
C234	403 164 0214	CERAMIC 0.1U Z 25V
C235	403 164 0214	CERAMIC 0.1U Z 25V
C236	403 164 0214	CERAMIC 0.1U Z 25V
C237	403 164 0214	CERAMIC 0.1U Z 25V
C240	403 113 4119	CERAMIC 2200P K 50V
C241	403 067 7895	MT-COMPO 0.47 J 50V
C242	403 257 0817	ELECT 0.47U M 50V
C243	403 069 5611	CERAMIC 0.01U K 50V
C247	403 233 0817	ELECT 10U M 50V
C251	403 314 5915	SMD CAP GRM40X5R474K16
C252	403 314 5915	SMD CAP GRM40X5R474K16
C421	404 077 4907	MT-POLYPRO 8200P H 1.5K
C422	403 083 9807	POLYPRO 0.018U J 630V
C423	404 077 4402	MT-POLYPRO ECWH20722HVBA PANA
C424	403 083 9302	POLYPRO 0.015U J 630V
C431	403 068 5612	CERAMIC 0.056U Z 25V
C432	403 076 3617	CERAMIC 470P K 500V
C433	403 076 0517	CERAMIC 2200P K 500V
C434	403 178 8807	ELECT 33U M 100V
C437	403 066 6106	MT-POLYEST 0.47U J 250V
C441	403 083 4109	POLYPRO 0.18U J 400V
C442	403 083 4109	POLYPRO 0.18U J 400V
C443	403 082 7824	POLYPRO 0.18U J 200V
C445	403 233 0817	ELECT 10U M 50V
C446	403 082 8009	POLYPRO 0.2U J 200V
C450	404 056 5208	NP-ELECT 100NW2R2MTA-6311
C451	404 063 5703	NP-ELECT 100NW1R0MTA-6311
C463	403 173 8208	POLYESTER 6800P K 100V
C465	403 188 0808	MT-POLYEST 2.2U J 100V
C466	403 188 0808	MT-POLYEST 2.2U J 100V
C468	403 233 1111	ELECT 22U M 50V
C481	403 076 1415	CERAMIC 2700P K 500V
C482	403 159 7409	MT-POLYEST 0.1U K 250V
C501	403 148 0424	ELECT 1000U M 25V
C502	403 217 1103	ELECT 220U M 35V
C504	403 149 9218	CERAMIC 0.01U Z 50V
C506	403 067 7895	MT-COMPO 0.47 J 50V
C521	403 148 0424	ELECT 1000U M 25V
C523	403 164 0214	CERAMIC 0.1U Z 25V
C526	403 113 3815	CERAMIC 1000P K 50V
C531	403 085 7405	NP-ELECT 10U M 25V
C542	403 164 0214	CERAMIC 0.1U Z 25V
C603	403 076 7130	CERAMIC 1000P M 1K
C604	403 076 7130	CERAMIC 1000P M 1K
C605	403 076 7130	CERAMIC 1000P M 1K
C606	403 076 7130	CERAMIC 1000P M 1K
C607	404 044 9904	ELECT 220U M 400V
C613	403 179 1213	POLYESTER 4700P J 50V
C614	403 237 8057	MT-COMPO 0.1U J 50V
C615	403 179 3217	POLYESTER 0.015U J 50V
C616	403 247 2101	CERAMIC 2200P K 2K
C617	403 179 1718	POLYESTER 0.033U J 50V
⚠ C631	404 073 4505	CERAMIC DE1210-1 E 222M
C633	403 148 0424	ELECT 1000U M 25V
C636	403 148 0107	ELECT 1000U M 16V
C637	403 158 1309	ELECT 2200U M 35V
C640	403 218 8200	ELECT 2200U M 25V
C641	403 076 6727	CERAMIC DE0607-486B102K1K
C642	404 054 8508	ELECT 270U M 160V
C643	403 042 4875	ELECT 1000U M 16V
C646	403 148 0424	ELECT 1000U M 25V
C647	403 157 6810	CERAMIC 680P K 50V
C648	403 039 3507	ELECT 470U M 6.3V
C649	403 194 4609	ELECT 470U M 16V
C681	403 148 0424	ELECT 1000U M 25V
C682	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C683	403 147 9606	ELECT 1000U M 10V
C684	403 135 7815	ELECT 50MV 3R3 HW+T
C800	403 248 1618	ELECT 47U M 16V
C801	403 149 9218	CERAMIC 0.01U Z 50V
C806	403 248 1618	ELECT 47U M 16V
C807	403 164 0214	CERAMIC 0.1U Z 25V
C810	403 269 5916	CERAMIC 0.22U K 16V
C811	403 269 5916	CERAMIC 0.22U K 16V
C812	403 157 4212	CERAMIC 220P J 50V
C814	403 155 2210	CERAMIC 3300P K 50V
C816	403 155 2319	CERAMIC 4700P K 50V
C817	403 145 9915	CERAMIC 22P J 50V
C818	403 155 2319	CERAMIC 4700P K 50V
C819	403 145 9915	CERAMIC 22P J 50V
C822	403 113 4119	CERAMIC 2200P K 50V
C824	403 153 9310	CERAMIC 82P J 50V
C826	403 086 1808	NP-ELECT 0.47U M 50V
C827	403 314 5915	SMD CAP GRM40X7R474K16
C828	403 149 9218	CERAMIC 0.01U Z 50V
C829	403 248 1618	ELECT 47U M 16V
C830	403 157 6711	CERAMIC 560P K 50V
C831	403 164 0214	CERAMIC 0.1U Z 25V
C832	403 248 1618	ELECT 47U M 16V
C833	403 157 2515	CERAMIC 27P J 50V
C834	403 157 2515	CERAMIC 27P J 50V

Ref. No.	Part No.	Description
C835	403 155 2319	CERAMIC 4700P K 50V
DIODE		
D1001	407 063 8319	ZENER DIODE MTZJ11C
D1002	407 063 8319	ZENER DIODE MTZJ11C
D1003	407 063 8319	ZENER DIODE MTZJ11C
D1004	407 063 8319	ZENER DIODE MTZJ11C
D1007	407 063 8319	ZENER DIODE MTZJ11C
D1008	407 063 8319	ZENER DIODE MTZJ11C
D1009	407 063 8319	ZENER DIODE MTZJ11C
D101	407 100 0214	ZENER DIODE MTZJ36A
D1010	407 063 8319	ZENER DIODE MTZJ11C
D1011	407 012 4416	DIODE 1SS133-T-77
D1012	407 012 4416	DIODE 1SS133-T-77
D1013	407 012 4416	DIODE 1SS133-T-77
D1020	407 063 8319	ZENER DIODE MTZJ11C
D1021	407 063 8319	ZENER DIODE MTZJ11C
D1022	407 063 8319	ZENER DIODE MTZJ11C
D1023	407 063 8319	ZENER DIODE MTZJ11C
D1024	407 063 8319	ZENER DIODE MTZJ11C
D1025	407 063 8319	ZENER DIODE MTZJ11C
D1026	407 063 8319	ZENER DIODE MTZJ11C
D1905	401 024 9325	CARBON 1K2 JA 1/6W
D1906	407 063 9514	ZENER DIODE
D240	407 012 4416	DIODE 1SS133-T-77
D241	407 012 4416	DIODE 1SS133-T-77
D242	407 012 4416	DIODE 1SS133-T-77
D431	407 063 9613	ZENER DIODE MTZJ9.1A
⚠ D438	407 095 8001	DIODE ERD07-15L
D439	407 006 4128	DIODE ERB44-04V1
D441	407 104 2402	PHOTO COUPLE PC817C
D442	408 007 8607	DIODE 1N4148
D445	407 012 4416	DIODE 1SS133-T-77
D446	407 063 9415	ZENER DIODE MTZJ8.2A
D461	407 012 4416	DIODE 1SS133-T-77
D463	407 012 4416	DIODE 1SS133-T-77
D465	403 179 1718	POLYESTER 0.033U J 50V
D466	407 099 7812	ZENER DIODE MTZJT-77-20A
D469	407 007 7415	DIODE EU1
D481	407 007 7415	DIODE EU1
D482	407 012 4416	DIODE 1SS133-T-77
D501	407 005 7328	DIODE EM01Z
D603	407 009 6921	DIODE RM11C
D604	407 009 6921	DIODE RM11C
D605	407 009 6921	DIODE RM11C
D606	407 009 6921	DIODE RM11C
D613	407 012 4416	DIODE 1SS133-T-77
D614	408 007 8607	DIODE 1N4148
⚠ D615	407 173 2907	PHOTO COUPLE PC123F2
D616	408 007 8607	DIODE 1N4148
D617	407 007 6616	DIODE ES1
D618	408 007 8607	DIODE 1N4148
D619	407 063 8319	ZENER DIODE MTZJ11C
D630	407 106 2806	DIODE RU3YX
D631	407 106 2806	DIODE RU3YX
D633	407 166 2303	DIODE ERC-91-02L
D634	407 106 2806	DIODE RU3YX
⚠ D635	407 129 6706	DIODE RU4YX LF-L1
D637	407 012 4416	DIODE 1SS133-T-77
D641	407 012 4416	DIODE 1SS133-T-77
⚠ D642	407 129 7000	DIODE RU4AM LF-L1
D643	407 012 4416	DIODE 1SS133-T-77
D645	407 099 5511	ZENER DIODE MTZJ6.2C
D681	407 005 7328	DIODE EM01Z
D682	407 063 8913	ZENER DIODE MTZJ5.6C
D683	407 005 7328	DIODE EM01Z
D684	408 007 8607	DIODE 1N4148
D685	407 012 4416	DIODE 1SS133-T-77
D826	407 099 4811	ZENER DIODE MTZJ4.3B
D831	407 012 4416	DIODE 1SS133-T-77

Ref. No.	Part No.	Description
INTERGRATED CIRCUITS		
IC001	409 301 4906	IC TDA7263M
IC001-1	610 283 0781	ASSY,AUDIO HEAT SINK C2HC
IC201	409 490 4701	IC TB1251BN VER 5.3
IC501	409 374 0607	IC LA7846N
IC501-1	610 282 6630	ASSY,FRAME HEAT SINK C2HC
IC641	409 241 5407	IC BA178M05T
IC642	409 377 5401	IC L78M09CV ST
IC801	410 329 1600	IC ST92R195
IC802	AAJQ0213G-	C2HAL VP/P E57F
	403 374 0108	IC PROM 77E6
IC803	409 343 6302	IC 24LC04B/P
TRANSFORMER		
T431	610 000 1138	DRIVE TRANS
⚠ T451	645 038 7210	TRANS,FLYBACK
⚠ T611	645 041 2264	TRANS,POWER,PULSE SMT4B
⚠ T681	610 033 3758	POWER TRANS
COIL		
L1003	610 078 5946	PIPE CORE
L1010	645 001 4550	PEAKING COIL 10UHK
L1011	645 001 4550	PEAKING COIL 10UHK
L1012	645 001 4550	PEAKING COIL 10UHK
L1013	645 001 4550	PEAKING COIL 10UHK
L1017	610 078 5946	PIPE CORE
L1020	645 001 4550	PEAKING COIL 10UHK
L1021	645 001 4550	PEAKING COIL 10UHK
L1022	645 001 4550	PEAKING COIL 10UHK
L1023	645 001 4550	PEAKING COIL 10UHK
L121	645 001 4635	PEAKING COIL 15UH K
L122	645 002 1459	PEAKING COIL
L123	401 016 9821	CARBON 27JA 1/4W FLAM-RET
L171	645 040 2715	TRANS,OSC 38.9MHZ
L240	645 001 4550	PEAKING COIL 10UHK
L241	645 001 4550	PEAKING COIL 10UHK
L242	645 001 4550	PEAKING COIL 10UHK
L431	610 032 4381	FILTER COIL
L441	645 030 2879	COIL,LINEARITY
L443	610 211 3471	INDUCTOR
L461	645 005 5645	INDUCTOR 222UH K
L462	645 033 2685	INDUCTOR, 484UH
L501	645 008 5642	INDUCTOR,3.3U K
L607	610 237 1000	PIPE CORE
L608	610 237 1000	PIPE CORE
L611	640 031 1577	INDUCTOR,22U K
L641	610 078 6820	PIPE CORE
L645	645 007 8194	INDUCTOR 120UH SUGAMI
L646	645 007 8194	INDUCTOR 120UH SUGAMI
L801	645 003 8549	PEAKING COIL
L802	645 003 8549	PEAKING COIL
L803	645 003 8549	PEAKING COIL
L804	645 003 8549	PEAKING COIL
L805	645 003 8549	PEAKING COIL
TRANSISTOR		
Q001	405 014 4519	TR 2SC2412KT146/R
Q1001	405 014 4519	TR 2SC2412KT146/R
Q1002	405 002 0318	TR 2SA1037K-T96-R
Q1003	405 014 4519	TR 2SC2412KT146/R
Q1006	405 002 0318	TR 2SA1037K-T96-R
Q1007	405 002 0318	TR 2SA1037K-T96-R
Q1008	405 002 0318	TR 2SA1037K-T96-R
Q1010	405 014 4519	TR 2SC2412KT146/R
Q1011	405 014 4519	TR 2SC2412KT146/R
Q121	405 014 4519	TR 2SC2412KT146/R
Q122	405 014 4519	TR 2SC2412KT146/R
Q131	405 002 0318	TR 2SA1037K-T96-R
Q132	405 002 0318	TR 2SA1037K-T96-R
Q133	405 014 4519	TR 2SC2412KT146/R

Ref. No.	Part No.	Description
Q141	405 015 9721	TR 2SC2814-F4-TB
Q153	405 002 0318	TR 2SA1037K-T96-R
Q1901	405 002 0318	TR 2SA1037K-T96-R
Q1902	405 014 4519	TR 2SC2412KT146/R
Q241	405 014 4519	TR 2SC2412KT146/R
Q242	405 002 0318	TR 2SA1037K-T96-R
Q243	405 002 0318	TR 2SA1037K-T96-R
Q244	405 002 0318	TR 2SA1037K-T96-R
Q431	405 029 7106	TR 2SC2271-D
Q432	405 144 2307	TR 2SD2580-YB
Q432-1	610 251 5893	POW HEAT SINK E7LC
Q451	406 012 1408	TR 2SK2010-CTV-YA14
Q461	405 064 7307	TR 2SB1274-Q-RA
Q461-1	610 277 4726	HEAT SINK PCC F6FE
Q462	405 039 3303	TR 2SC3114-R
Q491	405 014 4519	TR 2SC2412KT146/R
Q521	405 014 4519	TR 2SC2412KT146/R
Q522	405 014 4519	TR 2SC2412KT146/R
Q531	405 002 0318	TR 2SA1037K-T96-R
Q611	406 007 1901	TR JC556A
Q612	405 058 0208	TR 2SC3807-R-CTV-YA
Q613	405 095 0407	TR 2SC4429-L-YB
Q613-1	610 252 1108	H HEAT SINK E7LC
Q641	405 014 4519	TR 2SC2412KT146/R
Q652	405 014 4519	TR 2SC2412KT146/R
Q681	405 059 9804	TR 2SD1913-Q-RA
Q682	405 002 0318	TR 2SA1037K-T96-R
Q803	405 014 4519	TR 2SC2412KT146/R
Q804	405 014 4519	TR 2SC2412KT146/R
Q805	405 014 4519	TR 2SC2412KT146/R
Q806	405 014 4519	TR 2SC2412KT146/R
Q807	405 002 0318	TR 2SA1037K-T96-R
Q808	405 014 4519	TR 2SC2412KT146/R
Q810	405 014 4519	TR 2SC2412KT146/R

RESISTOR

R001	401 024 7024	CARBON	1K JA 1/6W
R002	401 105 2013	MT-GLAZE	1.8K JA 1/16W
R003	401 024 7024	CARBON	1K JA 1/6W
R004	401 105 2013	MT-GLAZE	1.8K JA 1/16W
R005	401 026 9323	CARBON	47 JA 1/6W
R006	401 025 1625	CARBON	1K5 JA 1/6W
R007	401 026 9323	CARBON	47 JA 1/6W
R008	401 025 1625	CARBON	1K5 JA 1/6W
R009	401 026 8128	CARBON	4.7 JA 1/6W
R010	401 026 8128	CARBON	4.7 JA 1/6W
R013	401 105 0514	MT-GLAZE	1K JA 1/16W
R014	401 022 1935	CARBON	680 JA 1/4W
R015	401 025 7429	CARBON	220 JA 1/6W
R016	401 022 1935	CARBON	680 JA 1/4W
R018	401 105 0613	MT-GLAZE	10K JA 1/16W
R021	401 105 0514	MT-GLAZE	1K JA 1/16W
R022	401 105 5410	MT-GLAZE	47K JA 1/16W
R1001	401 105 4710	MT-GLAZE	39K JA 1/16W
R1002	401 027 6628	CARBON	75 JA 1/6W
R1003	401 027 6628	CARBON	75 JA 1/6W
R1005	401 027 6628	CARBON	75 JA 1/6W
R1006	401 105 5212	MT-GLAZE	470 JA 1/16W
R1007	401 027 6628	CARBON	75 JA 1/6W
R1008	401 105 5212	MT-GLAZE	470 JA 1/16W
R1009	401 027 6628	CARBON	75 JA 1/6W
R101	401 105 0415	MT-GLAZE	100 JA 1/16W
R1010	401 105 5212	MT-GLAZE	470 JA 1/16W
R1011	401 027 6628	CARBON	75 JA 1/6W
R1012	401 105 2815	MT-GLAZE	2.2K JA 1/16W
R1013	401 105 2815	MT-GLAZE	2.2K JA 1/16W
R1014	401 105 5915	MT-GLAZE	560 JA 1/16W
R1015	401 105 5915	MT-GLAZE	560 JA 1/16W
R1016	401 026 7428	CARBON	39K JA 1/6W
R1017	401 027 6628	CARBON	75 JA 1/6W
R1018	401 027 6628	CARBON	75 JA 1/6W
R1019	401 027 6628	CARBON	75 JA 1/6W
R102	401 105 0415	MT-GLAZE	100 JA 1/16W
R1020	401 105 2815	MT-GLAZE	2.2K JA 1/16W
R1021	401 105 2815	MT-GLAZE	2.2K JA 1/16W
R1022	401 105 5915	MT-GLAZE	560 JA 1/16W
R1023	401 105 5915	MT-GLAZE	560 JA 1/16W
R1024	401 105 2914	MT-GLAZE	22K JA 1/16W
R1025	401 105 5311	MT-GLAZE	4.7K JA 1/16W
R1026	401 105 0415	MT-GLAZE	100 JA 1/16W
R1027	401 105 0514	MT-GLAZE	1K JA 1/16W
R1028	401 105 4017	MT-GLAZE	330 JA 1/16W
R1029	401 105 2914	MT-GLAZE	22K JA 1/16W
R1030	401 105 1511	MT-GLAZE	1.5K JA 1/16W
⚠ R103	401 061 4400	OXIDE-MT	3K JA 1W
R124	401 105 3317	MT-GLAZE	2.7K JA 1/16W
R126	401 105 4017	MT-GLAZE	330 JA 1/16W
R127	401 105 5915	MT-GLAZE	560 JA 1/16W
R128	401 105 0514	MT-GLAZE	1K JA 1/16W
R129	401 105 0514	MT-GLAZE	1K JA 1/16W
R130	401 105 0514	MT-GLAZE	1K JA 1/16W
R132	401 105 0514	MT-GLAZE	1K JA 1/16W
R133	401 105 0514	MT-GLAZE	1K JA 1/16W
R134	401 105 0514	MT-GLAZE	1K JA 1/16W
R135	401 105 5212	MT-GLAZE	470 JA 1/16W
R136	401 105 0415	MT-GLAZE	100 JA 1/16W
R137	401 105 5212	MT-GLAZE	470 JA 1/16W
R138	401 105 5212	MT-GLAZE	470 JA 1/16W
R139	401 105 3119	MT-GLAZE	27 JA 1/16W
R140	401 105 7919	MT-GLAZE	0.000 ZA 1/16W
R141	401 105 6011	MT-GLAZE	5.6K JA 1/16W
R142	401 105 0514	MT-GLAZE	1K JA 1/16W
R143	401 105 7919	MT-GLAZE	0.000 ZA 1/16W
R144	401 105 2716	MT-GLAZE	220 JA 1/16W
R149	401 027 2125	CARBON	56 JA 1/6W
R153	401 105 5212	MT-GLAZE	470 JA 1/16W
R157	401 105 0613	MT-GLAZE	10K JA 1/16W
R158	401 105 4710	MT-GLAZE	39K JA 1/16W
R1907	401 026 9620	CARBON	470 JA 1/6W
R1908	401 105 7919	MT-GLAZE	0.000 ZA 1/16W
R1909	401 105 7919	MT-GLAZE	0.000 ZA 1/16W
R1910	401 024 7430	CARBON	10K JA 1/6W
R1912	401 105 7919	MT-GLAZE	0.000 ZA 1/16W
R1916	401 105 0514	MT-GLAZE	1K JA 1/16W
R1917	401 105 6516	MT-GLAZE	680 JA 1/16W
R201	401 105 1412	MT-GLAZE	150 JA 1/16W
R202	401 105 3416	MT-GLAZE	27K JA 1/16W
R211	401 105 0415	MT-GLAZE	100 JA 1/16W
R212	401 026 0627	CARBON	270 JA 1/6W
R213	401 105 3010	MT-GLAZE	220K JA 1/16W
R214	401 105 0415	MT-GLAZE	100 JA 1/16W
R215	401 105 0415	MT-GLAZE	100 JA 1/16W
R216	401 105 0613	MT-GLAZE	10K JA 1/16W
R217	401 024 7430	CARBON	10K JA 1/6W
R230	401 105 4215	MT-GLAZE	33K JA 1/16W
R234	401 024 6720	CARBON	100 JA 1/6W
R235	401 024 6720	CARBON	100 JA 1/6W
R236	401 024 6720	CARBON	100 JA 1/6W
R237	401 024 6720	CARBON	100 JA 1/6W
R238	401 105 0415	MT-GLAZE	100 JA 1/16W
R239	401 105 2815	MT-GLAZE	2.2K JA 1/16W
R240	401 105 0415	MT-GLAZE	100 JA 1/16W
R241	401 105 2815	MT-GLAZE	2.2K JA 1/16W
R242	401 105 0415	MT-GLAZE	100 JA 1/16W
R243	401 105 2815	MT-GLAZE	2.2K JA 1/16W
R245	401 218 4614	MT-GLAZE	5.6K FA 1/16W
R246	401 105 4710	MT-GLAZE	39K JA 1/16W
R247	401 105 7919	MT-GLAZE	0.000 ZA 1/16W
R248	401 105 7513	MT-GLAZE	82K JA 1/16W
R249	401 024 7430	CARBON	10K JA 1/6W

Ref. No.	Part No.	Description
R250	401 105 0613	MT-GLAZE 10K JA 1/16W
R251	401 105 1214	MT-GLAZE 120K JA 1/16W
R253	401 024 7727	CARBON 100K JA 1/6W
R254	401 105 0712	MT-GLAZE 100K JA 1/16W
R255	401 105 8114	MT-GLAZE 56K JA 1/16W
R256	401 105 0514	MT-GLAZE 1K JA 1/16W
R257	401 105 0514	MT-GLAZE 1K JA 1/16W
R258	401 105 0514	MT-GLAZE 1K JA 1/16W
⚠ R430	401 068 0207	OXIDE-MT 3.9K JA 2W
R432	401 105 0514	MT-GLAZE 1K JA 1/16W
R433	401 010 8325	CARBON 5.6K JA 1/2W
R434	401 105 0415	MT-GLAZE 100 JA 1/16W
⚠ R435	402 066 4105	WIRE WOUND 4.7 KA 7W
R436	401 021 3049	CARBON 5.6K JA 1/4W
R437	401 026 3925	CARBON 330 JA 1/6W
R440	401 018 9839	CARBON 39 JA 1/4W
⚠ R441	401 058 3706	OXIDE-MT 1K JA 1W
⚠ R442	401 065 2808	OXIDE-MT 120 JA 2W
R443	401 007 2319	CARBON 100K JA 1/2W
R444	401 024 7430	CARBON 10K JA 1/6W
R445	401 024 6720	CARBON 100 JA 1/6W
R446	401 021 3049	CARBON 5.6K JA 1/4W
R447	401 026 9927	CARBON 4K7 JA 1/6W
R448	401 009 5843	CARBON 330 JA 1/2W
⚠ R449	401 068 0207	OXIDE-MT 3.9K JA 2W
R450	401 025 1922	CARBON 15K JA 1/6W
⚠ R451	401 068 6209	OXIDE-MT 5.6 JA 2W
R453	401 024 7024	CARBON 1K JA 1/6W
R454	401 014 6149	CARBON 150K JA 1/4W
R455	401 019 4031	CARBON 390K JA 1/4W
R461	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R462	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R463	401 025 7825	CARBON 2K2 JA 1/6W
R464	401 025 7825	CARBON 2K2 JA 1/6W
R465	401 026 9323	CARBON 47 JA 1/6W
R466	401 008 4510	CARBON 2.7 JB 1/2W
R469	401 026 1327	CARBON 27K JA 1/6W
R470	401 024 7727	CARBON 100K JA 1/6W
R473	401 027 5225	CARBON 680 JA 1/6W
R474	401 011 5541	CARBON 820 JA 1/2W
R481	401 016 5843	CARBON 220K JA 1/4W
R482	401 027 5522	CARBON 6K8 JA 1/6W
R491	401 105 4116	MT-GLAZE 3.3K JA 1/16W
R492	401 105 0613	MT-GLAZE 10K JA 1/16W
⚠ R502	402 063 3309	FUSIBLE RES 1.5 J- 1/4W
R503	401 105 1610	MT-GLAZE 15K JA 1/16W
⚠ R510	401 101 5800	OXIDE-MT .68 JA 2W
⚠ R512	401 062 1200	OXIDE-MT 470 JA 1W
⚠ R513	401 062 1200	OXIDE-MT 470 JA 1W
⚠ R515A	402 002 4206	FUSIBLE RES 3.3 J- 1W
R517	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R519	401 105 8015	MT-GLAZE 1M JA 1/16W
⚠ R521	401 067 2509	OXIDE-MT 3.3 JA 2W
R522	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R523	401 105 0514	MT-GLAZE 1K JA 1/16W
R526	401 105 5915	MT-GLAZE 560 JA 1/16W
R527	401 105 0514	MT-GLAZE 1K JA 1/16W
R528	401 105 6516	MT-GLAZE 680 JA 1/16W
R529	401 105 0514	MT-GLAZE 1K JA 1/16W
R530	401 105 4116	MT-GLAZE 3.3K JA 1/16W
R531	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R532	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R534	401 053 4718	MT-FILM 6K8 FA 1/6W
R537	401 105 6615	MT-GLAZE 6.8K JA 1/16W
R542	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R543	401 105 3218	MT-GLAZE 270 JA 1/16W

Ref. No.	Part No.	Description
R544	401 105 4314	MT-GLAZE 330K JA 1/16W
R545	401 105 6615	MT-GLAZE 6.8K JA 1/16W
⚠ R602	402 075 2109	WIRE W. SYK05DW1R8K JRM
R611	401 027 2620	CARBON 5K6 JA 1/6W
R612	401 026 9620	CARBON 470 JA 1/6W
R615	401 025 8228	CARBON 22K JA 1/6W
R617	401 024 7024	CARBON 1K JA 1/6W
R619	401 019 9640	CARBON 47 JA 1/4W
R620	401 007 5815	CARBON 120K JA 1/2W
R621	401 007 5815	CARBON 120K JA 1/2W
R622	401 014 5241	CARBON 15K JA 1/4W
R623	401 025 1625	CARBON 1K5 JA 1/6W
⚠ R624	401 068 2607	OXIDE-MT 47 JA 2W
⚠ R625	401 066 5204	OXIDE-MT 22 JA 2W
R626	401 015 9307	CARBON 2K JA 1/4W
⚠ R627	401 066 5204	OXIDE-MT 22 JA 2W
⚠ R628	401 068 2607	OXIDE-MT 47 JA 2W
⚠ R631	402 000 8602	SOLID 5.6M KA 1/2W
⚠ R632	402 000 8602	SOLID 5.6M KA 1/2W
R633	401 007 6921	CAR RES 15 JA
⚠ R634	401 061 1706	OXIDE-MT 33 JA 1W
⚠ R638	402 069 9800	WIRE WOUND 2.7 KA 5W
R641	401 027 2620	CARBON 5K6 JA 1/6W
R642	401 013 7335	CARBON 120K JA 1/4W
⚠ R643	401 065 1801	OXIDE-MT 12 JA 2W
⚠ R644	401 061 0006	OXIDE-MT 3.3 JA 1W
R645	401 016 4836	CARBON 22K JA 1/4W
R646	401 014 6149	CARBON 150K JA 1/4W
R647	401 010 8919	CARBON 56K JA 1/2W
R648	401 027 0329	CARBON 47K JA 1/6W
R653	401 105 2914	MT-GLAZE 22K JA 1/16W
R654	401 105 0613	MT-GLAZE 10K JA 1/16W
R681	401 008 1628	CARBON 1K8 JA 1/2W
⚠ R682	401 066 5204	OXIDE-MT 22 JA 2W
R684	401 027 8622	CARBON 8K2 JA 1/6W
R685	401 025 8228	CARBON 22K JA 1/6W
R801	401 105 5410	MT-GLAZE 47K JA 1/16W
R802	401 105 0613	MT-GLAZE 10K JA 1/16W
R804	401 105 0613	MT-GLAZE 10K JA 1/16W
R805	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R806	401 105 0613	MT-GLAZE 10K JA 1/16W
R807	401 105 0613	MT-GLAZE 10K JA 1/16W
R808	401 024 6720	CARBON 100 JA 1/6W
R809	401 105 0613	MT-GLAZE 10K JA 1/16W
R810	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R811	401 105 0415	MT-GLAZE 100 JA 1/16W
R812	401 105 0415	MT-GLAZE 100 JA 1/16W
R813	401 105 0415	MT-GLAZE 100 JA 1/16W
R814	401 105 0415	MT-GLAZE 100 JA 1/16W
R815	401 105 0415	MT-GLAZE 100 JA 1/16W
R817	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R818	401 105 5410	MT-GLAZE 47K JA 1/16W
R819	401 026 9927	CARBON 4K7 JA 1/6W
R820	401 105 4215	MT-GLAZE 33K JA 1/16W
R822	401 105 0613	MT-GLAZE 10K JA 1/16W
R823	401 105 0415	MT-GLAZE 100 JA 1/16W
R826	401 105 0613	MT-GLAZE 10K JA 1/16W
R828	401 027 3023	CARBON 56K JA 1/6W
R829	401 105 4215	MT-GLAZE 33K JA 1/16W
R830	401 105 4215	MT-GLAZE 33K JA 1/16W
R831	401 105 0613	MT-GLAZE 10K JA 1/16W
R832	401 105 0613	MT-GLAZE 10K JA 1/16W
R833	401 105 0613	MT-GLAZE 10K JA 1/16W
R836	401 105 6615	MT-GLAZE 6.8K JA 1/16W
R837	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R838	401 105 6011	MT-GLAZE 5.6K JA 1/16W

Ref. No.	Part No.	Description
R839	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R840	401 105 0514	MT-GLAZE 1K JA 1/16W
R842	401 105 1610	MT-GLAZE 15K JA 1/16W
R843	401 105 2716	MT-GLAZE 220 JA 1/16W
R844	401 105 2716	MT-GLAZE 220 JA 1/16W
R845	401 105 2716	MT-GLAZE 220 JA 1/16W
R846	401 105 0415	MT-GLAZE 100 JA 1/16W
R847	401 105 3317	MT-GLAZE 2.7K JA 1/16W
R848	401 105 3317	MT-GLAZE 2.7K JA 1/16W
R849	401 105 3317	MT-GLAZE 2.7K JA 1/16W
R850	401 105 0514	MT-GLAZE 1K JA 1/16W
R851	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R852	401 105 3416	MT-GLAZE 27K JA 1/16W
R853	401 105 2914	MT-GLAZE 22K JA 1/16W
R854	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R855	401 105 0613	MT-GLAZE 10K JA 1/16W
R856	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R857	401 105 4215	MT-GLAZE 33K JA 1/16W
R858	401 026 3925	CARBON 330 JA 1/6W
R859	401 105 5915	MT-GLAZE 560 JA 1/16W
R861	401 105 6516	MT-GLAZE 680 JA 1/16W
R862	401 105 7414	MT-GLAZE 8.2K JA 1/16W
R863	401 105 1610	MT-GLAZE 15K JA 1/16W
R864	401 105 4017	MT-GLAZE 330 JA 1/16W
R872	401 105 0613	MT-GLAZE 10K JA 1/16W
R873	401 105 0613	MT-GLAZE 10K JA 1/16W
R874	401 026 9620	CARBON 470 JA 1/6W
R875	401 026 9620	CARBON 470 JA 1/6W
R876	401 024 7430	CARBON 10K JA 1/6W
R877	401 027 0329	CARBON 47K JA 1/6W
R878	401 024 7430	CARBON 10K JA 1/6W
R879	401 105 0613	MT-GLAZE 10K JA 1/16W
R880	401 105 4710	MT-GLAZE 39K JA 1/16W
R881	401 105 0514	MT-GLAZE 1K JA 1/16W
R882	401 025 7429	CARBON 220 JA 1/6W
R883	401 105 2716	MT-GLAZE 220 JA 1/16W
R884	401 105 0514	MT-GLAZE 1K JA 1/16W

MISCELLANEOUS

A101	645 040 4511	TUNER,U
JS005	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS006	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS101	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS102	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J118	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J150	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J203	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J204	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J211	CUTTING WIRE	
J212	CUTTING WIRE	
J213	CUTTING WIRE	
J218	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J223	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J224	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J228	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J229	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J237	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J240	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J243	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J245	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J247	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J305	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J318	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J325	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J332	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J333	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J334	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J335	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J336	401 105 7919	MT-GLAZE 0.000 ZA 1/16W

Ref. No.	Part No.	Description
J340	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J344	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J346	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J416	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J434	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J442	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J454	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J456	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J500	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J508	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J525	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J617	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J623	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J629	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J631	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
KA	645 005 6567	PLUG,7P
KCPA	645 006 1905	HSG PLUG 5P S5B-XH-A JST
KDY-1	645 008 4058	TERMINAL PLUG
KDY-3	645 008 4058	TERMINAL PLUG
KDY-5	645 008 4058	TERMINAL PLUG
KDY-6	645 008 4058	TERMINAL PLUG
KEM1	645 008 4058	TERMINAL PLUG
KF-1	645 008 4058	TERMINAL PLUG
KF-2	645 008 4058	TERMINAL PLUG
KG	645 004 2942	PLUG,8P
KGG-1	645 008 4058	TERMINAL PLUG
KGG-1	645 008 4058	TERMINAL PLUG
KJ	645 040 4627	SOCKET,PWB-PWB 15P
KM	645 032 1924	SOCKET,PWB-PWB 20P
KN	645 004 2942	PLUG,8P
KP	645 008 7288	HOUSING PLUG 5P
KQ	645 008 7264	HOUSING PLUG 3P
KU	645 014 2093	PLUG,5P
K1001	645 005 5867	21-PIN SOCKET
K1002	645 005 5867	21-PIN SOCKET
PB101	610 282 2939	PWB,MAIN C2HC “D” SERIES
SW501	610 011 2728	SWITCH,LEVER 1P-3T
TP-A	645 008 4058	TERMINAL PLUG
TP-B	645 008 4058	TERMINAL PLUG
VR641	645 006 5514	VR,SEMI,2.2K N
X121	645 001 7902	TRAP,CERAMIC (6.0W3)
X131A	421 007 8606	SAW F TSB5387P
X132	421 002 4702	SAW F TSF5322
X231	645 042 3741	XTAL 4.433MHZ 16PF KSS5MM
X801	610 282 0201	CRYSTAL OSCILLATOR
Z101	610 282 9693	SHIELD CASE C2HC-A

1AA0B10H04300 ASSY,PWB,FRONT C2YH 0805

CAPACITOR

C042	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C043	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C046	403 085 7405	NP-ELECT 10U M 16V
C047	403 085 7405	NP-ELECT 10U M 16V
C049	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C050	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C1102	403 069 1712	CERAMIC 1000P K 50V
C1103	403 233 0817	ELECT 10U M 50V
C1104	403 233 0817	ELECT 10U M 50V
C1107	403 069 1712	CERAMIC 1000P K 50V
C1108	403 233 0817	ELECT 10U M 50V
C1109	403 233 0817	ELECT 10U M 50V
C1112	403 009 5718	CERAMIC 100P J 50V
C1113	403 248 1618	ELECT 47U M 16V
C1117	403 008 7416	CERAMIC 10P D 50V
C1301	403 085 6705	NP-ELECT 47U M 16V
C1302	403 069 1712	CERAMIC 1000P K 50V
C1303	403 023 4414	CERAMIC 330P J 50V
C1305	403 028 4112	CERAMIC 56P J 50V
C1306	403 237 8057	MT-COMPO 0.1U J 50V

Ref. No.	Part No.	Description
C1310	403 248 1410	ELECT 1U M 50V
C1316	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C1317	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C1318	403 039 6508	ELECT 100U M 10V
C1319	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C1321	403 013 3014	CERAMIC 150P J 50V
C1322	403 105 9511	CERAMIC 1000P J 50V
C1323	403 105 9511	CERAMIC 1000P J 50V
C1324	403 248 1618	ELECT 47U M 16V
C1325	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C1326	403 014 9213	CERAMIC 180P J 50V
C1331	403 248 1618	ELECT 47U M 16V
C1332	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C1333	403 179 1718	POLYESTER 0.033U J 50V
C1334	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C1335	403 233 1517	50 YK 4R7 M TA 0511
C1341	403 179 3811	POLYESTER 0.01U K 50V
C1364	403 039 6508	ELECT 100U M 10V
C1901	403 218 8101	ELECT 100U M 25V
C2510	403 237 8057	MT-COMPO 0.1U J 50V
C2511	403 248 1410	ELECT 1U M 50V
C2512	403 039 6508	ELECT 100U M 10V
C2513	403 069 9510	CERAMIC CHIP 0.01 Z 50V
C691	404 060 7205	MT-POLYEST 0.1U M 250V
C692	404 060 7205	MT-POLYEST 0.1U M 250V
DIODE		
D1102	408 007 8607	DIODE 1N4148
D1103	408 007 8607	DIODE 1N4148
D1301	407 012 4416	DIODE 1SS133-T-77
D1302	407 012 4416	DIODE 1SS133-T-77
D1901	407 158 9204	LED SPR-39MVWF
D1901A	610 222 0322	LED HOLDER-G2CA-A
D2513	407 012 4416	DIODE 1SS133-T-77
D2514	407 012 4416	DIODE 1SS133-T-77
INTERGRATED CIRCUIT		
IC1301	409 018 3902	IC LA6393D
IC1302	409 301 2803	IC MN1381-Q
IC1303	410 260 8300	IC M34225M1-548SP
IC1304	409 203 2911	IC SN74LS123M-R
COIL		
L041	645 002 4511	CORE,PIPE
L042	645 008 5635	INDUCTOR,12U K
L043	645 008 5635	INDUCTOR,12U K
L1101	645 001 4550	PEAKING COIL 10UHK
L1106	645 001 4550	PEAKING COIL 10UHK
L1301	645 003 7122	INDUCTOR,330U J
L1305	645 001 4581	PEAKING COIL
L691	645 019 3873	LINE FILTER-SAMWHA TECOM
L692	610 237 1000	PIPE CORE
L693	610 237 1000	PIPE CORE
TRANSISTOR		
Q1101	405 014 4519	TR 2SC2412KT146/R
Q1106	405 014 4519	TR 2SC2412KT146/R
Q1301	405 014 4519	TR 2SC2412KT146/R
Q1302	405 014 4519	TR 2SC2412KT146/R
Q1304	405 014 4519	TR 2SC2412KT146/R
Q1305	405 014 4519	TR 2SC2412KT146/R
Q1306	405 014 4519	TR 2SC2412KT146/R
Q1307	405 014 4519	TR 2SC2412KT146/R
Q1309	405 014 4519	TR 2SC2412KT146/R
Q1311	405 014 4519	TR 2SC2412KT146/R
Q1313	405 014 4519	TR 2SC2412KT146/R
Q2502	405 014 4519	TR 2SC2412KT146/R
Q2503	405 014 4519	TR 2SC2412KT146/R
Q2506	405 014 4519	TR 2SC2412KT146/R

Ref. No.	Part No.	Description
RESISTOR		
R046	401 007 7641	CARBON 150 JA 1/2W
R047	401 007 7641	CARBON 150 JA 1/2W
R1101	401 038 0711	MT-GLAZE 2.2K JA 1/10W
R1102	401 037 5717	MT-GLAZE 100K JA 1/10W
R1103	401 037 5717	MT-GLAZE 100K JA 1/10W
R1104	401 038 0919	MT-GLAZE 220K JA 1/10W
R1105	401 038 7710	MT-GLAZE 5.6K JA 1/10W
R1106	401 038 0711	MT-GLAZE 2.2K JA 1/10W
R1107	401 037 5717	MT-GLAZE 100K JA 1/10W
R1108	401 037 5717	MT-GLAZE 100K JA 1/10W
R1109	401 038 0919	MT-GLAZE 220K JA 1/10W
R1110	401 038 7710	MT-GLAZE 5.6K JA 1/10W
R1301	401 037 5618	MT-GLAZE 10K JA 1/10W
R1302	401 038 2210	MT-GLAZE 27K JA 1/10W
R1303	401 037 5410	MT-GLAZE 1K JA 1/10W
R1304	401 037 6615	MT-GLAZE 120 JA 1/10W
R1305	401 038 5013	MT-GLAZE 390 JA 1/10W
R1306	401 038 0919	MT-GLAZE 220K JA 1/10W
R1307	401 038 0810	MT-GLAZE 22K JA 1/10W
R1309	401 037 5212	MT-GLAZE 100 JA 1/10W
R1310	401 038 7512	MT-GLAZE 56 JA 1/10W
R1311	401 038 2210	MT-GLAZE 27K JA 1/10W
R1312	401 037 5816	MT-GLAZE 1M JA 1/10W
R1313	401 037 5618	MT-GLAZE 10K JA 1/10W
R1314	401 037 5618	MT-GLAZE 10K JA 1/10W
R1315	401 037 7810	MT-GLAZE 150 JA 1/10W
R1316	401 037 6813	MT-GLAZE 12K JA 1/10W
R1317	401 038 7710	MT-GLAZE 5.6K JA 1/10W
R1318	401 038 6416	MT-GLAZE 4.7K JA 1/10W
R1319	401 038 2319	MT-GLAZE 270K JA 1/10W
R1320	401 038 2210	MT-GLAZE 27K JA 1/10W
R1321	401 037 5410	MT-GLAZE 1K JA 1/10W
R1322	401 038 7611	MT-GLAZE 560 JA 1/10W
R1323	401 037 5618	MT-GLAZE 10K JA 1/10W
R1324	401 038 3613	MT-GLAZE 3.3K JA 1/10W
R1325	401 037 5410	MT-GLAZE 1K JA 1/10W
R1326	401 038 6416	MT-GLAZE 4.7K JA 1/10W
R1327	401 038 0810	MT-GLAZE 22K JA 1/10W
R1328	401 038 0810	MT-GLAZE 22K JA 1/10W
R1329	401 037 5410	MT-GLAZE 1K JA 1/10W
R1330	401 038 9011	MT-GLAZE 680 JA 1/10W
R1332	401 038 0810	MT-GLAZE 22K JA 1/10W
R1333	401 037 5618	MT-GLAZE 10K JA 1/10W
R1334	401 038 2210	MT-GLAZE 27K JA 1/10W
R1335	401 037 5618	MT-GLAZE 10K JA 1/10W
R1336	401 037 5618	MT-GLAZE 10K JA 1/10W
R1338	401 037 5618	MT-GLAZE 10K JA 1/10W
R1339	401 037 5212	MT-GLAZE 100 JA 1/10W
R1340	401 037 6813	MT-GLAZE 12K JA 1/10W
R1341	401 038 2111	MT-GLAZE 2.7K JA 1/10W
R1342	401 038 2111	MT-GLAZE 2.7K JA 1/10W
R1343	401 038 2111	MT-GLAZE 2.7K JA 1/10W
R1344	401 037 6318	MT-GLAZE 110K JA 1/10W
R1346	401 038 1015	MT-GLAZE 2.2M JA 1/10W
R1347	401 037 5618	MT-GLAZE 10K JA 1/10W
R1348	401 037 5410	MT-GLAZE 1K JA 1/10W
R1349	401 038 9318	MT-GLAZE 68K JA 1/10W
R1351	401 037 5212	MT-GLAZE 100 JA 1/10W
R1352	401 037 5212	MT-GLAZE 100 JA 1/10W
R1353	401 037 5212	MT-GLAZE 100 JA 1/10W
R1361	401 037 9418	MT-GLAZE 180K JA 1/10W
R1362	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
R1952	401 038 3514	MT-GLAZE 330 JA 1/10W
R1953	401 037 7919	MT-GLAZE 1.5K JA 1/10W
R1954	401 025 1922	CARBON 15K JA 1/6W
R1955	401 027 8622	CARBON 8K2 JA 1/6W
R1956	401 026 9927	CARBON 4K7 JA 1/6W
R1957	401 038 2111	MT-GLAZE 2.7K JA 1/10W
R1958	401 038 0711	MT-GLAZE 2.2K JA 1/10W

Ref. No.	Part No.	Description
R2510	401 038 3811	MT-GLAZE 330K JA 1/10W
R2512	401 037 5618	MT-GLAZE 10K JA 1/10W
R2514	401 037 6714	MT-GLAZE 1.2K JA 1/10W
R2515	401 038 3613	MT-GLAZE 3.3K JA 1/10W
R2516	401 037 5618	MT-GLAZE 10K JA 1/10W
R2517	401 037 5410	MT-GLAZE 1K JA 1/10W
R2518	401 037 5410	MT-GLAZE 1K JA 1/10W
R2521	401 037 5618	MT-GLAZE 10K JA 1/10W
R2525	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
R2526	401 037 5410	MT-GLAZE 1K JA 1/10W
R2527	401 038 3712	MT-GLAZE 33K JA 1/10W

MISCELLANEOUS

A1901A	645 028 1044	REMO REC SPS-443-1-E
⚠ F691	423 022 2102	FUSE 250V 4.0A
F691-1	645 000 5077	HOLDER,FUSE
F691-2	645 000 5077	HOLDER,FUSE
JT1308	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
JT1309	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
JT1311	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
J1315	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
J1322	401 025 1922	CARBON 15K JA 1/6W
J1332	401 026 9927	CARBON 4K7 JA 1/6W
J1351	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
K041	645 005 5706	PHONE JACK HTJ-035-10AB
K1101	645 002 0568	TERMINAL,BOARD
K19A	645 008 5536	SOCKET,7P
K19E-1	645 008 4058	TERMINAL PLUG
K19E-2	645 008 4058	TERMINAL PLUG
K19F-1	645 008 4058	TERMINAL PLUG
K19F-2	645 008 4058	TERMINAL PLUG
K19FF-1	645 008 4058	TERMINAL PLUG
K19FF-2	645 008 4058	TERMINAL PLUG
K19G	645 004 2942	PLUG,8P
K19H	645 008 7288	HOUSING PLUG 5P
K19LL	645 004 2881	PLUG,2P
K19N	645 004 2942	PLUG,8P
K19RR-1	645 008 4058	TERMINAL PLUG
K19RR-2	645 008 4058	TERMINAL PLUG
K19U	645 008 5512	SOCKET,5P
PB1901	610 282 2991	PWB,FRONT C2HC X3 “A”
PS691	408 013 3801	TH PTH451C262BF140M270
SW1951	610 011 4432	SWITCH,PUSH
SW1952	610 011 4432	SWITCH,PUSH
SW1953	610 011 4432	SWITCH,PUSH
SW1954	610 011 4432	SWITCH,PUSH
⚠ SW691	645 024 0607	PUSH SW POWER SDDFC3
VR1301	645 006 5521	VR,SEMI,22K N
XL1301	645 000 2328	FILTER,EMI 13000PF
XL1302	645 000 2328	FILTER,EMI 13000PF
X1301	645 006 1752	CERAMIC OSCILLATOR

1AA0B10E59200 ASSY,PWB,NICAM-SW C2HA

CAPACITOR

C1200	403 047 8402	ELECT 0.1U M 50V
C1201	403 149 9218	CERAMIC 0.01U Z 50V
C1202	403 248 1618	ELECT 47U M 16V
C1204	403 233 1111	ELECT 22U M 50V
C1205	403 298 9619	CERAMIC 0.1U K 16V
C1206	403 298 9619	CERAMIC 0.1U K 16V
C1207	403 233 0817	ELECT 10U M 50V
C1208	403 157 3611	CERAMIC 100P J 50V
C1209	403 157 3611	CERAMIC 100P J 50V
C1211	403 153 9310	CERAMIC 82P J 50V
C1212	403 153 9310	CERAMIC 82P J 50V
C1213	403 153 9310	CERAMIC 82P J 50V
C1214	403 153 9310	CERAMIC 82P J 50V
C1215	403 153 9310	CERAMIC 82P J 50V
C1216	403 233 0817	ELECT 10U M 50V
C1217	403 233 0817	ELECT 10U M 50V
C1218	403 153 9310	CERAMIC 82P J 50V
C3138	403 160 0020	ELECT 470U M 10V
C3139	403 248 1618	ELECT 47U M 16V
C3452	403 314 5915	SMD CAP GRM40X5R474K16
C3453	403 157 2911	CERAMIC 47P J 50V
C3454	403 164 0214	CERAMIC 0.1U Z 25V
C3456	403 298 9619	CERAMIC 0.1U K 16V
C3458	403 157 2911	CERAMIC 47P J 50V
C3459	403 248 1618	ELECT 47U M 16V
C3461	403 248 1410	ELECT 1U M 50V
C3467	403 248 1410	ELECT 1U M 50V
C3468	403 164 0214	CERAMIC 0.1U Z 25V
C3469	403 164 0214	CERAMIC 0.1U Z 25V
C3473	403 279 4312	CERAMIC 0.33U K 16V
C3474	403 279 4312	CERAMIC 0.33U K 16V
C3476	403 314 5915	SMD CAP GRM40X5R474K16
C3477	403 248 1618	ELECT 47U M 16V
C3480	403 248 1618	ELECT 47U M 16V
C3481	403 248 1618	ELECT 47U M 16V
C3482	403 149 9218	CERAMIC 0.01U Z 50V
C3483	403 149 9218	CERAMIC 0.01U Z 50V
C3484	403 248 1618	ELECT 47U M 16V
C3485	403 149 9218	CERAMIC 0.01U Z 50V
C3486	403 248 1410	ELECT 1U M 50V
C3487	403 248 1410	ELECT 1U M 50V
C3492	403 149 9218	CERAMIC 0.01U Z 50V
C3493	403 149 9218	CERAMIC 0.01U Z 50V
C3494	403 164 0214	CERAMIC 0.1U Z 25V
C3495	403 164 0214	CERAMIC 0.1U Z 25V
C3501	403 233 0817	ELECT 10U M 50V
C3502	403 157 7312	CERAMIC 6800P K 50V
C3503	403 313 8016	CERAMIC 1000P J 25V
C3504	403 298 9619	CERAMIC 0.1U K 16V
C3505	403 248 1618	ELECT 47U M 16V
C3506	403 248 2813	50 YK 2R2 M TA 0511
C3507	403 215 2211	CERAMIC 0.01U K 50V
C3508	403 215 2211	CERAMIC 0.01U K 50V
C3509	403 215 2211	CERAMIC 0.01U K 50V
C3510	403 215 2211	CERAMIC 0.01U K 50V
C3511	403 313 8016	CERAMIC 1000P J 25V
C3512	403 298 9619	CERAMIC 0.1U K 16V
C3513	403 157 7312	CERAMIC 6800P K 50V
C3514	403 233 0817	ELECT 10U M 50V
C3515	403 248 2813	50 YK 2R2 M TA 0511
C3516	403 233 0817	ELECT 10U M 50V
C3517	403 269 5916	CERAMIC 0.22U K 16V
C3518	403 248 1618	ELECT 47U M 16V
C3520	403 248 1618	ELECT 47U M 16V
C3521	403 279 4312	CERAMIC 0.33U K 16V
C3522	403 279 4312	CERAMIC 0.33U K 16V

INTERGRATED CIRCUIT

IC1201	409 419 5406	IC MM1313BD
IC3102	409 241 5407	IC BA178M05T
IC3451	409 445 1403	IC TDA9875A/V2
IC3501	409 405 6004	IC MM1369BD

COIL

L1201	645 008 2467	PEAKING COIL
L1202	645 008 2467	PEAKING COIL
L1203	645 008 2467	PEAKING COIL
L1204	645 008 2467	PEAKING COIL
L1205	645 008 2467	PEAKING COIL
L1206	645 008 2467	PEAKING COIL
L3450	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
L3452	645 008 2214	PEAKING COIL 2.2UHK
L3453	645 008 2214	PEAKING COIL 2.2UHK
L3456	645 008 2214	PEAKING COIL 2.2UHK
L3457	645 008 2214	PEAKING COIL 2.2UHK

Ref. No.	Part No.	Description
L3459	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
L3469	645 008 2467	PEAKING COIL
TRANSISTOR		
Q1202	405 014 4519	TR 2SC2412KT146/R
Q1203	405 014 4519	TR 2SC2412KT146/R
Q1204	405 014 4519	TR 2SC2412KT146/R
Q1205	405 014 4519	TR 2SC2412KT146/R
Q1206	405 014 4519	TR 2SC2412KT146/R
Q1207	405 002 0318	TR 2SA1037K-T96-R
Q3452	405 014 4519	TR 2SC2412KT146/R
Q3453	405 014 4519	TR 2SC2412KT146/R
Q3454	405 014 4519	TR 2SC2412KT146/R
Q3455	405 014 4519	TR 2SC2412KT146/R
Q3501	405 014 4519	TR 2SC2412KT146/R
Q3502	405 014 4519	TR 2SC2412KT146/R
Q3503	405 014 4519	TR 2SC2412KT146/R
RESISTOR		
R1200	401 105 1412	MT-GLAZE 150 JA 1/16W
R1201	401 105 3218	MT-GLAZE 270 JA 1/16W
R1202	401 105 3218	MT-GLAZE 270 JA 1/16W
R1203	401 105 3218	MT-GLAZE 270 JA 1/16W
R1204	401 105 0415	MT-GLAZE 100 JA 1/16W
R1205	401 105 0415	MT-GLAZE 100 JA 1/16W
R1206	401 105 3218	MT-GLAZE 270 JA 1/16W
R1207	401 105 0415	MT-GLAZE 100 JA 1/16W
R1208	401 105 0415	MT-GLAZE 100 JA 1/16W
R1211	401 105 0415	MT-GLAZE 100 JA 1/16W
R1212	401 105 0415	MT-GLAZE 100 JA 1/16W
R1213	401 105 0415	MT-GLAZE 100 JA 1/16W
R1214	401 105 0415	MT-GLAZE 100 JA 1/16W
R1215	401 105 0415	MT-GLAZE 100 JA 1/16W
R1216	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R1217	401 105 5212	MT-GLAZE 470 JA 1/16W
R1219	401 105 1016	MT-GLAZE 1.2K JA 1/16W
R1220	401 105 1016	MT-GLAZE 1.2K JA 1/16W
R1221	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R1222	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R1223	401 105 5212	MT-GLAZE 470 JA 1/16W
R1224	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R1225	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R1226	401 105 5212	MT-GLAZE 470 JA 1/16W
R1227	401 105 3218	MT-GLAZE 270 JA 1/16W
R1228	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R1229	401 105 2013	MT-GLAZE 1.8K JA 1/16W
R1230	401 105 3218	MT-GLAZE 270 JA 1/16W
R1231	401 105 1412	MT-GLAZE 150 JA 1/16W
R1232	401 105 5212	MT-GLAZE 470 JA 1/16W
R3451	401 105 0415	MT-GLAZE 100 JA 1/16W
R3452	401 105 0415	MT-GLAZE 100 JA 1/16W
R3453	401 105 0613	MT-GLAZE 10K JA 1/16W
R3454	401 105 0415	MT-GLAZE 100 JA 1/16W
R3455	401 105 0613	MT-GLAZE 10K JA 1/16W
R3464	401 105 0415	MT-GLAZE 100 JA 1/16W
R3465	401 105 0613	MT-GLAZE 10K JA 1/16W
R3471	401 105 3218	MT-GLAZE 270 JA 1/16W
R3473	401 105 5212	MT-GLAZE 470 JA 1/16W
R3474	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R3475	401 105 5212	MT-GLAZE 470 JA 1/16W
R3476	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R3477	401 105 4710	MT-GLAZE 39K JA 1/16W
R3478	401 105 4710	MT-GLAZE 39K JA 1/16W
R3479	401 105 1610	MT-GLAZE 15K JA 1/16W
R3480	401 105 1610	MT-GLAZE 15K JA 1/16W
R3485	401 105 5212	MT-GLAZE 470 JA 1/16W
R3486	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R3487	401 105 5212	MT-GLAZE 470 JA 1/16W
R3488	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R3501	401 261 0717	MT-GLAZE 7.5K FA 1/16W
R3502	401 105 0415	MT-GLAZE 100 JA 1/16W
R3503	401 105 7315	MT-GLAZE 820 JA 1/16W
R3504	401 105 0514	MT-GLAZE 1K JA 1/16W
R3505	401 105 7513	MT-GLAZE 82K JA 1/16W
R3506	401 105 2112	MT-GLAZE 18K JA 1/16W
R3507	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R3508	401 105 0514	MT-GLAZE 1K JA 1/16W
R3509	401 105 6615	MT-GLAZE 6.8K JA 1/16W
R3510	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R3511	401 105 3010	MT-GLAZE 220K JA 1/16W
R3512	401 105 8114	MT-GLAZE 56K JA 1/16W
R3513	401 105 8114	MT-GLAZE 56K JA 1/16W
R3514	401 105 4611	MT-GLAZE 3.9K JA 1/16W
R3515	401 105 0514	MT-GLAZE 1K JA 1/16W
R3516	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R3517	401 105 0514	MT-GLAZE 1K JA 1/16W
R3518	401 105 2815	MT-GLAZE 2.2K JA 1/16W
X3451	645 024 7484	OSC,CRYSTAL 24.576MHZ
Z1200	610 285 9614	SHIELD CASE-B-N-C2HC
MISCELLANEOUS		
J1203	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J1204	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J1206	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J1207	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J1210	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3450	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3451	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3452	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3453	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3457	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3458	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3459	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3460	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3461	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3462	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3463	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3464	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3465	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3471	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3491	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J3492	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
K12H	645 004 2713	HOUSING PLUG 5P
K12J	645 040 4610	PLUG,PWB-PWB 15P
K12M	645 039 9411	PLUG,PWB-PWB 20P

1AA0B10E59400 ASSY,PWB,CRT C2HC

CAPACITOR		
C711	403 159 7409	MT-POLYEST 0.1U K 250V
C712	403 237 7941	MT-COMPO 0.22U J 50V
C718	403 077 2728	CERAMIC 1000P P 2K
C721	403 248 1608	ELECT 47U M 16V
C722	403 055 8401	ELECT 22U M 250V
C731	403 074 5712	CERAMIC 560P K 50V
DIODE		
D701	407 012 4416	DIODE 1SS133-T-77
D702	407 012 4416	DIODE 1SS133-T-77
D703	407 012 4416	DIODE 1SS133-T-77
D721	407 012 4416	DIODE 1SS133-T-77
INTERGRATED CIRCUIT		
IC701	409 468 8403	IC TDA6103Q/N3
IC701-1	610 283 8657	ASSY,CRT HEAT SINK C2HC
COIL		
⚠ L721	401 016 1617	C.RES 22 JA 1/4W FLAM-RET
TRANSISTOR		
Q721	406 007 1901	TR JC556A

Ref. No.	Part No.	Description
RESISTOR		
R701	401 025 7825	CARBON 2K2 JA 1/6W
R702	401 025 7825	CARBON 2K2 JA 1/6W
R703	401 025 7825	CARBON 2K2 JA 1/6W
R704	401 007 2319	CARBON 100K JA 1/2W
⚠ R705	401 065 0804	OXIDE-MT 100K JA 2W
R706	401 007 2319	CARBON 100K JA 1/2W
R707	401 024 9325	CARBON 1K2 JA 1/6W
R708	401 024 9325	CARBON 1K2 JA 1/6W
R709	401 024 9325	CARBON 1K2 JA 1/6W
R711	401 025 8723	CARBON 220K JA 1/6W
R712	401 025 9819	CARBON 2.4K JA 1/6W
R713	401 007 8440	CARBON 1.5K JA 1/2W
R714	401 007 8440	CARBON 1.5K JA 1/2W
R715	401 007 8440	CARBON 1.5K JA 1/2W
R718	401 007 8440	CARBON 1.5K JA 1/2W
R721	401 024 7430	CARBON 10K JA 1/6W
R722	401 024 7430	CARBON 10K JA 1/6W
MISCELLANEOUS		
K7D2	645 008 4058	TERMINAL PLUG
K7M1	645 008 4058	TERMINAL PLUG
7M2	645 008 4058	TERMINAL PLUG
K7P	645 008 7288	HOUSING PLUG 5P
K7Q	645 008 7264	HOUSING PLUG 3P
⚠ K701	645 031 7699	CRT SKT. HPS-014103

1AA0B10H047D0 ASSY,PWB,HARMONICS EB6WAB

COIL		
L1600	645 042 2829	CHOKE, ETQR45T007B PANA
MISCELLANEOUS		
K16H-1	645 008 4058	TERMINAL PLUG
K16H-2	645 008 4058	TERMINAL PLUG
PB1600	610 286 8722	PWB,HARMONICS C2WFV

OUT OF CIRCUIT-013C3HAL

COIL		
L901	645 037 4227	DEGAUSS COIL 28"WIDE
TRANSISTOR		
Q901	414 010 7100	PHILIPS W66ECK001X14 CRT
MISCELLANEOUS		
SP901	645 047 2046	SPEAKER 8 H125/1039
SP902	645 047 2046	SPEAKER 8 H125/1039
W901	645 011 8838	3P AC CORD +2P HOUSE @2.1
W902	610 291 6669	GND CONNECTOR 28"W

CE32WN5-B-00

ALL PANELS ARE THE SAME AS CE28WN5-B-00 EXCEPT THE FOLLOWING DIFERENCES

1AA0B10H046C0 ASSY,PWB,MAIN C2YAV

CAPACITOR		
C421	CMXAA3Y782HAN	MT-PPRO ECWH20782
C422	CN2J273JBGAQN	POLYPRO 0.027U
C423	CMXAA3Y982HAN	MT-PPRO ECWH20982
C441	CN2D224JBEAQN	POLYPRO 0.22U
C443	CN2D184JBEAQN	POLYPRO 0.18U
C642	CEXAA2C271AAN	ELECT 270U
COIL		
L441	645 029 8035	COIL,LINEARITY 32" WIDE
L462	645 016 9120	COIL.
RESISTOR		
R435	402 072 1204	WIRE WOUND 1.8 KA 7W
R451	401 066 3705	OXIDE-MT 2.7 JA 2W
R455	401 016 5843	CARBON 220K JA 1/4W
R471	401 026 9620	CARBON 470 JA 1/6W
R519	401 114 0116	MT-GLAZE 1.5M JA 1/16W
R534	401 053 4213	MT-FILM 5K6 FA 1/6W
R537	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R643	401 065 5809	OXIDE-MT 15 JA 2W
TRANSFORMER		
T451	640 387 197	TRANS,FLYBACK
T611	645 040 1824	TRANS,POWER,PULSE
MISCELLANEOUS		
KSC	645 008 405	TERMINAL PLUG

OUT OF CIRCUIT-013C3YAV - DIFFERENCES

COIL		
L901	645 037 4234	D/COIL 32 WIDE
TRANSISTOR		
Q901	414 011 0803	W76EGV023X015 CRT 50
MISCELLANEOUS		
W902	610 291 6652	GND CONNECTOR 32"W
W902A	610 206 0300	GROUNDING SPRING-S4LA
W902B	610 206 0300	GROUNDING SPRING-S4LA

All information in this manual is correct at the start of production. Sanyo reserves the right to modify components and procedures in order to comply with their continuous improvement policy.

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